


The  
Johns  
Hopkins  
University

Conferring of Degrees

At the Close of the  
110th Academic Year  
May 30, 1986



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## ORDER OF PROCESSION

### MARSHALS

EDWARD J. BOUWER  
PAUL R. DANIELS  
ANDREW S. DOUGLAS  
BRUCE HAMILTON  
MARTHA HILL  
SUSAN D. HORN  
JEAN EICHELBERGER IVEY

MARION PANYAN  
OWEN M. PHILLIPS  
FRED S. SCHOCK  
HENRY SEIDEL  
NATHANIEL B. THAYER  
JAMES C. WALKER  
M. GORDON WOLMAN

### THE GRADUATES

\*

### MARSHALS

FREDERIC DAVIDSON  
JEROME B. SCHNEEWIND

### THE FACULTIES

\*

### MARSHALS

MARC D. DONOHUE  
LLOYD ARMSTRONG

### THE DEANS

MEMBERS OF THE SOCIETY OF SCHOLARS

OFFICERS OF THE UNIVERSITY

THE TRUSTEES

\*

### CHIEF MARSHAL

PAUL R. McHUGH

### THE CHAPLAINS

THE HONORARY DEGREE CANDIDATES

THE PROVOST OF THE UNIVERSITY

THE CHAIRMAN OF THE BOARD OF TRUSTEES

THE PRESIDENT OF THE UNIVERSITY

\*

# ORDER OF EVENTS

STEVEN MULLER

*President of the University, presiding*

\* \* \*

## PRELUDE

*Colonel Bogie March*

KENNETH ALFORD

(1881-1945)

*Sonata 22*

JOHANN PEZEL

(1639-1694)

*Homage March*

EDVARD GRIEG

(1843-1907)

*Contrapunctus III*

J. S. BACH

(1685-1750)

*Fanfare from LaPerie*

PAUL DUKAS

(1865-1935)

\*

## PROCESSIONAL

*The audience is requested to stand as the Academic Procession  
moves into the area and to remain standing after  
the Invocation*

*Marches from Belshazzar, Floridante, Ezio,  
Judas Maccabaeus, Saint Cecilia's Day and Rinaldo*

GEORG FRIEDRICH HANDEL

(1685-1759)

\*

## THE PRESIDENT'S PROCESSION

*Fanfare*

WALTER PISTON

1894-1976)

*March from Scipione*

GEORG FRIEDRICH HANDEL

(1685-1759)

\*

## INVOCATION

GRETCHEN VAN UTT

*Chaplain*

*The Johns Hopkins University*

\*

## THE NATIONAL ANTHEM

\*

## GREETINGS

GEORGE G. RADCLIFFE

*Chairman of the Board of Trustees*

\*

## PRESENTATION OF NEW MEMBERS OF THE SOCIETY OF SCHOLARS

MOSHE ABELES  
HAROUTUNE ARMENIAN  
ERNESTO CARAFOLI  
DENTON A. COOLEY  
GILLES MARC CORCOS  
MILTON THOMAS EDGERTON

WAYNE A. HENDRICKSON  
GEOEANNA SEEGAR JONES  
HOWARD WILBUR JONES  
ROBERT G. PETERSDORF  
RAYMOND SELTSE  
MORTON M. WEBER

WILLIAM O. WILLIAMS

SCHOLARS PRESENTED BY RICHARD LONGAKER  
*Provost of the University*

\*

THE FESTIVAL BRASS  
ELLERY B. WOODWORTH, conductor  
*Fanfare for the Common Man*  
AARON COPLAND  
(1900- )

\*

## CONFERRING OF HONORARY DEGREES

ALONZO G. DECKER, JR.  
RHODA M. DORSEY  
WILLIAM N. MANN \*  
ERIC R. KANDEL

PRESENTED BY RICHARD LONGAKER

\* Presented *in absentia* and accepted by  
DR. RICHARD S. ROSS

\*

## ADDRESS

ERIC R. KANDEL  
*University Professor, Columbia University*

\*

## CONFERRING OF DEGREES ON CANDIDATES

### BACHELORS OF ARTS

*Presented by*

GEORGE W. FISHER  
*Dean, School of Arts and Sciences*

\* \* \*

BACHELORS OF SCIENCE IN BIOMEDICAL ENGINEERING  
BACHELORS OF SCIENCE IN CHEMICAL ENGINEERING  
BACHELORS OF SCIENCE IN CIVIL ENGINEERING  
BACHELORS OF SCIENCE IN ELECTRICAL ENGINEERING  
BACHELORS OF SCIENCE IN ENGINEERING MECHANICS  
BACHELORS OF SCIENCE IN MATERIALS SCIENCE AND  
ENGINEERING

CONFERRING OF DEGREES ON CANDIDATES  
*continued*

BACHELORS OF SCIENCE IN MATHEMATICAL SCIENCES  
BACHELORS OF ARTS  
BACHELORS OF CIVIL ENGINEERING  
BACHELORS OF ELECTRICAL ENGINEERING  
BACHELORS OF INDUSTRIAL ENGINEERING  
BACHELORS OF MECHANICAL ENGINEERING

*Presented by*

V. DAVID VANDELINDE

*Dean, G.W.C. Whiting School of Engineering*

\* \* \*

PERFORMERS CERTIFICATES  
BACHELORS OF MUSIC

*Presented by*

ROBERT O. PIERCE

*Director, Peabody Conservatory of Music*

\* \* \*

BACHELORS OF SCIENCE

*Presented by*

CAROL J. GRAY

*Dean, School of Nursing*

\* \* \*

ASSOCIATES OF ARTS  
ASSOCIATES OF SCIENCE  
BACHELORS OF SCIENCE

*Presented by*

STANLEY C. GABOR

*Dean, School of Continuing Studies*

\* \* \*

MASTERS OF SCIENCE  
MASTERS OF EDUCATION  
MASTERS OF LIBERAL ARTS  
MASTERS OF ADMINISTRATIVE SCIENCE  
CERTIFICATES OF ADVANCED STUDY

*Presented by*

STANLEY C. GABOR

*Dean, School of Continuing Studies*

\* \* \*



CONFERRING OF DEGREES ON CANDIDATES  
*continued*

PROFESSIONAL STUDIES CERTIFICATES  
MASTERS OF MUSIC  
ARTISTS DIPLOMAS

*Presented by*  
ROBERT O. PIERCE  
*Director, Peabody Conservatory of Music*

\* \* \*

MASTERS OF SCIENCE  
MASTERS OF HEALTH SCIENCE  
MASTERS OF PUBLIC HEALTH

*Presented by*  
DONALD A. HENDERSON  
*Dean, School of Hygiene and Public Health*

\* \* \*

MASTERS OF INTERNATIONAL PUBLIC POLICY  
MASTERS OF ARTS IN INTERNATIONAL AFFAIRS  
MASTERS OF ARTS

*Presented by*  
GEORGE R. PACKARD  
*Dean, School of Advanced International Studies*

\* \* \*

MASTERS OF ARTS

*Presented by*  
RICHARD S. ROSS  
*Dean, School of Medicine*

\* \* \*

MASTERS OF CIVIL ENGINEERING  
MASTERS OF SCIENCE  
MASTERS OF SCIENCE IN ENGINEERING  
MASTERS OF ARTS

*Presented by*  
V. DAVID VANDELINDE  
*Dean, G. W. C. Whiting School of Engineering*

\* \* \*

CONFERRING OF DEGREES ON CANDIDATES  
*continued*

MASTERS OF ARTS

*Presented by*  
GEORGE W. FISHER  
*Dean, School of Arts and Sciences*

\* \* \*

DOCTORS OF EDUCATION

*Presented by*  
STANLEY C. GABOR  
*Dean, School of Continuing Studies*

\* \* \*

DOCTORS OF MUSICAL ARTS

*Presented by*  
ROBERT O. PIERCE  
*Director, Peabody Conservatory of Music*

\* \* \*

DOCTORS OF SCIENCE  
DOCTORS OF PUBLIC HEALTH  
DOCTORS OF PHILOSOPHY

*Presented by*  
DONALD A. HENDERSON  
*Dean, School of Hygiene and Public Health*

\* \* \*

DOCTORS OF PHILOSOPHY

*Presented by*  
GEORGE R. PACKARD  
*Dean, School of Advanced International Studies*

\* \* \*

DOCTORS OF MEDICINE  
DOCTORS OF PHILOSOPHY

*Presented by*  
RICHARD S. ROSS  
*Dean, School of Medicine*

\* \* \*

CONFERRING OF DEGREES ON CANDIDATES  
*continued*

DOCTORS OF PHILOSOPHY

*Presented by*

V. DAVID VANDELINDE

*Dean, G. W. C. Whiting School of Engineering*

\* \* \*

DOCTORS OF PHILOSOPHY

*Presented by*

GEORGE W. FISHER

*Dean, School of Arts and Sciences*

\* \* \*

STATEMENT TO THE GRADUATES

STEVEN MULLER

*President of the University*

\*

BENEDICTION

CLYDE R. SHALLENBERGER

*Director*

*The Chaplaincy Service  
The Johns Hopkins Hospital*

\*

RECESSIONAL

*Trumpet Voluntary*

JEREMIAH CLARKE  
(1673-1707)

*Trumpet Tune*  
HENRY PURCELL  
(1659-1695)

*The audience is requested to remain standing after the  
Benediction until the principals, officials, members of the faculties, and  
graduates have left the area.*

## JOHNS HOPKINS SOCIETY OF SCHOLARS

The Johns Hopkins Society of Scholars was created on the recommendation of former President Milton S. Eisenhower and approved by the University Board of Trustees on May 1, 1967. The Society—the first of its kind in the nation—inducts former postdoctoral fellows at Johns Hopkins who have gained marked distinction in their fields of physical, biological, medical, social or engineering sciences, or the humanities, and for whom at least five years have elapsed since their postdoctoral work. The Committee of the Johns Hopkins Society of Scholars, whose members are equally distributed among the academic divisions, elects the Scholars from the candidates nominated by the academic divisions having programs for postdoctoral fellows. Each division has the privilege of nominating up to three candidates for each election year. The Scholars are invested during the Commencement ceremony, the Commemoration Day ceremony, or on some similar occasion. They are presented with a diploma and a medallion with a black and gold ribbon. The Scholars wear the medallion around the neck, and they also wear academic costumes.

Today we honor 13 new members who have been elected this year to the Johns Hopkins Society of Scholars.

Dr. Moshe Abeles is visiting professor in the Department of Physiology at the University of Pennsylvania and chairman of the Israel Center for Psychobiology at the Hadassah Medical School in Jerusalem. He was a postdoctoral fellow in the Department of Biomedical Engineering from 1966 to 1968, years which set the course of a career marked by international distinction in teaching and in neuroscience research. He is widely known for study of the neocortex and local circuits in the brain, with his 1982 monograph on the latter subject representing exemplary work in the field. He has received prizes for papers on EEG synchronizing and desynchronizing neurons and for work on computer aided analysis of nerve cell activity. He has trained a number of talented graduate students, including two who followed his path in postdoctoral study at Johns Hopkins.

Dr. Haroutune Krikor Armenian is dean of the Faculty of Health Sciences at the American University of Beirut in Lebanon. He holds a medical degree from the institution and earned both master's and doctoral degrees at the Johns Hopkins School of Hygiene and Public Health. He was a postdoctoral fellow in the School's Department of Epidemiology from 1971 to 1974. His creative and imaginative research in widely ranging areas of epidemiology has earned him recognition as one of the leading authorities on public health problems and health care systems in the Middle East. Not the least of his achievements has been his ability to sustain an extraordinarily productive level of research and administrative leadership in Beirut through recent times which have been marked by extreme chaos and uncertainty.

Dr. Ernesto Carafoli is professor of biochemistry at the Swiss Federal Institute of Technology in Zurich and currently a Fogarty Scholar-in-Residence at the National Institutes of Health. He was a postdoctoral fellow in the Department of Physiological Chemistry at the School of Medicine from 1963 to 1965. He is recognized as one of the world's foremost experts on calcium metabolism in both normal and pathological tissues and on the various roles which calcium plays in biological systems. He is particularly known for his research on the role of mitochondria in calcium metabolism, having helped identify both uptake and exit pathways for calcium in this organelle. He is also a widely recognized authority on the bioenergetics of normal and pathological states, and has been instrumental in organizing meetings throughout the world on bioenergetics and calcium metabolism.

Dr. Denton A. Cooley is surgeon-in-chief at the Texas Heart Institute in Houston. He obtained his M.D. degree from Johns Hopkins in 1944 and served as a surgical intern and resident in surgery between 1945 and 1950. During that time, he worked under the noted surgeon, Dr. Alfred Blalock, and became part of the small group of skilled practitioners who led the development of cardiac surgery in the United States and internationally. One of his later achievements was the development of the Texas Heart Institute, known around the world as one of the leading facilities of its kind. Among the honors he has received are the nation's highest civilian award, the Presidential Medal of Freedom, as well as the Theodore Roosevelt Award and the Rene Leriche Prize. He also holds the Distinguished Alumnus Award of Johns Hopkins University, which he continues to serve as a member of the Board of Trustees.

Dr. Gilles Marc Corcos is professor of fluid mechanics at the University of California at Berkeley. He was a postdoctoral fellow in the Department of Aeronautics at the School of Engineering from 1952 to 1954. His subsequent work was distinguished by a creative combination of theoretical and experimental studies in fluid mechanics, and he was a pioneer in measuring the pressure fluctuations and acoustical properties of turbulent boundary layers. His more recent work has focused on mathematical modeling of turbulent shear layers. His contributions have been characterized by unusually critical scrutiny of experimental techniques and by insightful mathematical modeling. He has served the Office of Naval Research as liaison scientist in Europe and was a visiting professor at the University of Grenoble, where he earned the *Docteur d'Etat en Sciences Physiques*.

Dr. Milton Thomas Edgerton has been plastic surgeon-in-chief at the University of Virginia Medical Center in Charlottesville since 1970. He earned the M.D. at Johns Hopkins in 1944, was resident in surgery from 1949 to 1951, and served on the full-time faculty of the School of Medicine from 1951 until 1970. His work over the years has done much to advance the field of reconstructive surgery necessitated by such conditions as birth defects, war wounds, cancer, and burns. In 1964, he opened the first interdisciplinary Gender Identity Clinic to offer surgery to transsexuals in this country. His skill and dedication have been recognized by his election to leadership positions in such prestigious organizations as the American Surgical Association, the Society of University Surgeons, the American College of Surgeons, the American Association of Plastic Surgeons, and the American Board of Plastic Surgery.

Dr. Wayne A. Hendrickson is professor of biochemistry and molecular biophysics at Columbia University. He earned a doctoral degree in biophysics at Johns Hopkins in 1968 and was a postdoctoral fellow in the Department of Biophysics in 1968-1969. He spent 15 years as a research biophysicist at the Naval Research Laboratory before assuming his present position in 1984. In a highly productive research career, he has made important advances in determining the structure of biologically important molecules through x-ray crystallography and magnetic resonance techniques. He has also made valuable contributions to the development of improved analysis techniques used in crystallography. Among many honors, he holds the Navy's Meritorious Civilian Service Award and is a Fellow of the American Association for the Advancement of Science.

Dr. Georgeanna Seegar Jones is professor of obstetrics and gynecology at Eastern Virginia Medical School in Norfolk. She earned an M.D. from the Johns Hopkins School of Medicine in 1936 and was a postdoctoral fellow from 1936 to 1939. For almost 40 years following, she was in charge of the Gynecological Endocrine Clinic at the Johns Hopkins Hospital and professor in the School of Medicine. Throughout that period, her work was complemented by that of her husband, Dr. Howard W. Jones, whom she married in 1940. In 1978, they moved to Virginia and embarked on a second illustrious career which resulted in the establishment of the first major in vitro fertilization program in the United States. For this, they have received international acclaim and serve as leading spokespeople for the procedure throughout the world.

Dr. Howard Wilbur Jones is professor of obstetrics and gynecology at Eastern Virginia Medical School in Norfolk. A 1935 graduate of the Johns Hopkins School of Medicine, he was a resident in gynecology at the Johns Hopkins Hospital from 1935 to 1937. Like his wife, Georgeanna S. Jones, he served the institution with distinction, clinically and administratively, for many years. He attained the rank of professor in 1967 and was named emeritus professor in 1976. As the second member of a world famous team, he concentrated on the surgical aspects of gynecology, with special focus on aspects of malformation and cancer. In his present work, he joins his wife in furthering the technique of in vitro fertilization at what has become one of the best known and most highly successful facilities of its kind in the world.

Dr. Robert G. Petersdorf is dean of the School of Medicine and vice chancellor for the health sciences at the University of California at San Diego. After earning an M.D. at Yale University, he was a research fellow in the Department of Medicine at Johns Hopkins from 1955 to 1957. A highly respected figure in internal and academic medicine, he has achieved distinction in research, teaching, and administration. He has served as president of the Association of American Physicians, the American College of Physicians, and the Association of Professors of Medicine, and is a member of the National Academy of Sciences-Institutes of Medicine. He has also been a forceful defender and critic of the academic medical establishment, stressing the need to adjust to changing societal pressures while remaining true to the essential mission of advancing knowledge and maintaining rigorous standards of medical education.

Dr. Raymond Seltser is dean of the Graduate School of Public Health at the University of Pittsburgh. He holds an M.D. degree from Boston University and was a postdoctoral fellow in the Department of Epidemiology at the School of Hygiene and Public Health from 1955 to 1957. He remained at the School, serving as associate dean for nine years as well as associate professor of epidemiology and deputy director of the Johns Hopkins Oncology Center. His entire career has been marked by productive application of epidemiologic science to a wide array of health problems, including influenza, pneumonia, cerebrovascular disease, and radiation hazards to radiologists and other physicians. He is also nationally recognized for his leadership in public health education. His service to numerous professional organizations includes chairmanship of the Epidemiology Section Council of the American Public Health Association.

Dr. Morton M. Weber is professor and chairman of the Department of Microbiology at the St. Louis University School of Medicine. He holds an Sc.D. degree from the School of Hygiene and Public Health and was a postdoctoral fellow at the University's McCollum-Pratt Institute from 1953 to 1956. He is an internationally recognized authority on electron transport in biologically important materials and on the effect of light and other regulators in electron transport and energy metabolism. A combination of his studies in bioenergetics led to an understanding of the mode of action of the anti-tubercular drug, isoniazid, and his work is contributing to the elucidation of new drugs for the treatment of tuberculosis and possibly leprosy. He has served as secretary, vice chairman, and chairman of the Physiology Division of the American Society for Microbiology.

Dr. William O. Williams is professor and associate head of the Department of Mathematics at Carnegie-Mellon University. He received a doctorate in applied mathematics from Brown University in 1967 and was a postdoctoral fellow in the Department of Mechanics at Johns Hopkins in 1969-1970. An authority on the mechanics and thermodynamics of mixtures, he has published numerous research papers, mainly on the foundations of continuum thermomechanics. In 1978, he was a Senior Fulbright-Hays Fellow at the University of Pisa, and has been an invited lecturer at the University of Bucharest, the State University of New York at Buffalo, the University of Minnesota, and others. He is a consultant to the Los Alamos National Laboratory and editor of an international series of monographs for Martinus Nijhoff Publishers in Holland.



*Citation Read by*  
RICHARD P. LONGAKER  
*in Presenting*  
ALONZO GALLOWAY DECKER, JR.  
*for the Degree of Doctor of Humane Letters*  
May 30, 1986

Businessman, civic leader, conservationist and friend, you have made immeasurable contributions to this community, this State, and this University.

As chief executive of the Black & Decker Corporation, the company that your father founded, you presided over an era of unprecedented growth. It was through your efforts that Black & Decker attained a position of worldwide prominence. Now, as honorary board chairman and chairman of the executive committee, you have entered your seventh decade of company service.

Your skill as an entrepreneur is matched by your selfless dedication to community, state, and nation. But, especially, since you began serving as a university trustee in 1968, your counsel and judgment have guided the growth of this institution. As chairman of the Hopkins Hundreds Campaign, you contributed in so many ways to the success of that effort. Today, as a trustee emeritus, you continue to inspire us with your generosity of spirit and commitment to excellence.

Few individuals are endowed with your talents, and few have given more of themselves to this community and to the University. Alonzo Galloway Decker, Jr., The Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, *honoris causa*.

*Citation Read by*  
RICHARD P. LONGAKER  
*in Presenting*  
RHODA M. DORSEY  
*for the Degree of Doctor of Humane Letters*  
May 30, 1986

A recognized leader among the nation's institutions of higher education, you today are President of a college with which Johns Hopkins has had long and happy relationships.

You first came to Goucher College as an assistant professor in 1954. Twenty years later, your intellect, your wit, and your managerial skills made you an obvious choice to become Goucher's first woman president. You immediately set forth to restore the college's financial stability, succeeding so well that today Goucher's endowment is the second highest among Maryland's independent colleges.

As the educational needs of women have changed, you have responded with flexibility and creativity, instituting innovative programs. Moreover, as the Goucher community has faced the prospect of coeducation, you have guided the ensuing discussions with intelligence and sensitivity.



You sit on the boards of major corporations, and the leadership skills you have demonstrated at Goucher have also benefited numerous academic and civic organizations.

Rhoda M. Dorsey, for your enormous contributions to education and to this community, The Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, *honoris causa*.

*Citation Read by*

RICHARD P. LONGAKER

*in Awarding in absentia*

WILLIAM NEVILLE MANN

*the Degree of Doctor of Humane Letters*

May 30, 1986

Physician of eminence, scholar of distinction, and teacher of merit, you have influenced countless young doctors by your teaching and erudition, by the high standards that you set for the care of the sick, and by your example.

After your career was interrupted by service in the Second World War, you returned to serve on the staff of Guy's Hospital. You became the first Director of the Department of Medicine, and in 1963 became Senior Physician to the Hospital. At the Royal College of Physicians, London, you became Senior Censor and subsequently served as Senior Vice-President of the College. You have held the appointment of Physician to Her Majesty's Household and later as Physician to the Queen. Your writings are as distinguished as your medical service, and your book, *The Medical Works of Hippocrates*, is a classic example of your scholarly art.

You were one of the physicians to visit The Johns Hopkins Hospital in the early days of the exchange of staff that occurs between Guy's Hospital and Johns Hopkins. Your continuing goodwill has helped to foster the special relations that have existed between these two great institutions for the past forty years.

William Neville Mann, in recognition of your own accomplishments and those of the hospital you have served so well, The Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, *honoris causa*.

*Citation Read by*

RICHARD P. LONGAKER

*in Presenting*

ERIC RICHARD KANDEL

*for the Degree of Doctor of Humane Letters*

May 30, 1986

Scientist and educator, you have profoundly changed our understanding of learning and memory, linking molecular events in the brain with mental functions.

Your interdisciplinary research has displayed a similar synthesis, combining behavioral analysis with analysis at the cellular, molecular, and genetic levels. With characteristic insight, you realized that the simple nervous system of the sea snail *Aplysia* offered possibilities for elucidating the mechanisms of learning, properties that should hold for all animals, including humans. Your studies of *Aplysia's* defensive withdrawal reflex provided the first demonstration of a complete pathway from stimulus, through neural activity, to behavior. You further showed that learning modifies behavior by regulating the strength of electrical and chemical signals at the connecting points between nerve cells.

In building this vital bridge between the sciences of cell biology and behavior, you have opened doors that promise to reveal the biological mechanisms underlying all mental activity—thus holding out hope for more effective treatment of learning disorders, memory impairment, and many psychiatric illnesses.

Eric Richard Kandel, for your pioneering research into the still mysterious world of mind and brain, The Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, *honoris causa*.

## THE UNIVERSITY MACE

The University Mace carried by the Chief Marshal, Dr. Paul R. McHugh, was first used at the 1954 Commemoration Day Exercises. Eight symbols are hand wrought in sterling silver on an ebony staff. The symbols represent man's cultural development from ancient times, through the Middle Ages and the Renaissance, to the modern era.

## THE PRESIDENTIAL INSIGNIA

University President Steven Muller is wearing the Presidential Insignia signifying the authority vested in the President by the Board of Trustees. It is a chain of sterling silver links worn around the neck. Portraits of each of the ten Johns Hopkins University Presidents are engraved on the faces of ten of the links. On the reverse are engraved the names and dates of office of each President. Ten blank links for future use are included. The University Seal completes the design.

## ACADEMIC DRESS

The custom of wearing academic dress stems from the Middle Ages, when scholars were also clerics and wore the costume of their monastic order. The hood was originally a cowl attached to the gown, which could be slipped over the head for warmth. The cap was originally round, but has changed to the varieties that we see today.

The gown varies for the respective degrees. The Bachelor's gown is worn closed and can be distinguished by its long, pointed sleeves. The Master's gown is designed to be open with the arms worn through the slits in the elbows of the sleeves. The Doctor's gown, also worn open, has full, bell-shaped sleeves with three horizontal bars stitched across the upper arm. There is a velvet panel draped around the neck and stitched down the front edges. This velvet trimming may be either black or the same color as the velvet border of the hood.

The hood also varies for the respective degrees. The Bachelor's and Master's hoods are of the same design, pointed at the base. The Bachelor's hood is three feet long; the Master's hood is three and one half feet long. The Doctor's hood is four feet long, of fuller shape and rounded at the base.

The hood is bordered with velvet, the color of which indicates the field of study in which the degree was earned:

*Dark blue — Philosophy*  
*Light blue — Education*  
*Orange — Engineering*  
*Gold-yellow — Science*

*Green — Medicine*  
*Salmon pink — Public Health*  
*Pink — Music*  
*Purple — Laws*

*White — Arts and Letters*

The silk lining of the hood represents the institution which granted the degree. If more than one degree is held, the gown and hood of the higher or highest degree is worn. The Johns Hopkins University has adopted an alternative costume to be used by all holding Johns Hopkins doctoral degrees, both earned and honorary. The costume consists of a gold robe with front and side panels in sable velvet and a six-sided Dutch academic cap with gold sweatband and tassel. The linings seen in today's academic procession may include:

Black, old gold chevron — Johns Hopkins	Purple — New York University
Light blue, white chevron — Columbia	Bright red — Wisconsin
Dark blue — Yale	Plum, with scarlet — London
Blue with white chevron — Duke	Maroon — Chicago
Dark blue, two orange chevrons — Illinois	Crimson — Harvard
Light blue, two white chevrons — North Carolina	Carmelian, two white chevrons — Cornell
Old gold, maroon chevron — Minnesota	Cardinal — Stanford
Old gold — Iowa	Red, tri-chevron in center — Heidelberg
Gold, blue chevron — California	Dandelion yellow — Michigan
Gold — Virginia	Maize, azure blue chevron — Sorbonne
Purple, gold chevron — Northwestern	Yellow and white — Rochester
Carnegie Tartan — Carnegie-Mellon	

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## THE UNIVERSITY MOTTO

Veritas vos liberabit.

The truth shall make you free

—St. John 8:32

## AWARDS

### IN THE SCHOOLS OF ARTS AND SCIENCES, ENGINEERING AND MEDICINE

LOUIS SUDLER PRIZE IN THE ARTS  
for excellence in the visual or performing arts  
*Awarded to* KAREN KING

### IN THE SCHOOLS OF ARTS AND SCIENCES AND ENGINEERING

AMERICAN CHEMICAL SOCIETY, MARYLAND SECTION STUDENT AWARD  
for outstanding scholastic achievement in chemistry and related disciplines  
by an undergraduate  
*Awarded to* ELLEN SHULMAN

LOUIS AZRAEL FELLOWSHIP IN COMMUNICATIONS  
for demonstrated excellence in a field of mass communications  
*Awarded to* SUJATA CHRIS BANERJEE

WILLIAM H. BAIN AWARD  
for outstanding achievement by an undergraduate in the Writing Seminars  
*Awarded to* KEVIN JOHN SOTTAK

BIOMEDICAL ENGINEERING AWARD  
for outstanding effort in research in Biomedical Engineering  
*Awarded to* ROGER J. HAJJAR  
JEANE-MARIE S. ROBERT  
DAVID M. PRESSEL

ALEXANDER BUTLER PRIZE  
for the best research paper by a first year graduate student in History  
*Awarded to* ELIZABETH MANCKE

EUGENIO AND PATRICIA CASTILLO AWARD  
to the best first or second year graduate student in Political Economy  
*Awarded to* NANCY WAGNER

G. STANLEY HALL PRIZE  
for outstanding achievement by an undergraduate in Psychology  
*Awarded to* LISA IJIRI

THE MAX HOCHSCHILD FUND  
The prize is awarded annually to the undergraduate student in Business and  
Industrial Management who has shown the greatest promise and proficiency in  
this field and is awarded to  
PETER C. IACONO

THE 3 ARTS CLUB OF HOMELAND AWARD  
for outstanding achievement in the Writing Seminars  
*Awarded to* PETER WILLIAM OEHLKERS

AT&T INFORMATION SYSTEMS—WILLIAM HUGGINS AWARD  
for outstanding service and academic achievement by a senior and junior in  
Electrical Engineering and Computer Science  
*Awarded to* DENNIS ALLEN BURTON  
DAVID HAROLD FERRY

ADOLF KATZENELLENBOGEN MEMORIAL PRIZE

for outstanding work in Art History

*Awarded to* NANCY ELLEN FORGIONE

ARTHUR KOUGUELL PRIZE

to the outstanding undergraduate major in History

*Awarded to* GORDON JOHNATHAN LEWIS

MARTIN G. LARRABEE AWARD

for meritorious research conducted by senior undergraduates in Biophysics

*Awarded to* MARK CHARLES HANNIBAL

ERNEST M. MARKS AWARD

in recognition of excellence in instruction in Chemistry

*Awarded to* PETER S. COOPER  
CARL B. FRIEDHOFF

PAUL A. MCCOY PRIZE

for the most distinguished masters essay in Political Science

*Awarded to* BONNIE HONIG

ROBERT S. PONO, SR. ACHIEVEMENT AWARD

to the graduating senior in Materials Science who best exemplifies  
Professor Pond's commitment to scholarly and humane values.

*Awarded to* CAROL A. LEBOWITZ

SARAH & ADOLPH ROSEMAN ACHIEVEMENT AWARD

in recognition of outstanding accomplishment in Chemistry

*Awarded to* BETH A. DOMBROSKI  
JOHN M. WEITZEL

ROYAL SOCIETY OF ARTS SILVER MEDAL

for distinguished achievement by an undergraduate in the application  
of art or science to the field of commerce or industry,  
and for significant participation in student activities.

*Awarded to* CAROL ANN LEBOWITZ

JULIAN C. STANLEY AWARD

for the undergraduate psychology major who most closely approximates  
Dr. Stanley's personal and professional standard of excellence

*Awarded to* SUSAN DAUBER

JULIUS TURNER PRIZE

for the most distinguished senior thesis in Political Science

*Awarded to* JANICE RAYE WINGO

JOHN BOSWELL WHITEHEAD AWARD

for outstanding achievements by an undergraduate in Electrical Engineering  
and Computer Science

*Awarded to* JOHN FRANCIS KUTCHER

LOY WILKINSON AWARD

for a demonstrated record of academic excellence, leadership, and service  
in Chemical Engineering

*Awarded to* MARCIA LACRONE

IN THE PEABODY CONSERVATORY OF MUSIC

THE HAROLD RANDOLPH PRIZE

*Awarded to PAUL GROVE*

THE MARYLAND STATE TEACHERS ASSOCIATION PRIZE

*Awarded to MARGARET LYLE DEMAREST-FEW*

THE EDITH AND IRENE ASHWORTH PRIZE

*Awarded to KAREN LYNN SMALL*

THE BALTIMORE MUSIC CLUB AWARD IN ACCOMPANYING

MARK MARKHAM

THE PAULINE FAVIN MEMORIAL AWARD IN PIANO

KRISTIE RENÉE BORN

OTTO ORTMANN AWARD IN COMPOSITION

J. MARK STAMBAUGH

THE JOSEPH KASPER AWARD IN VIOLIN

MARC A. RAMÍREZ

THE ZAIDEE T. THOMAS AWARD IN VOICE

MARIA TEGES

THE ZAIDEE T. THOMAS INSTRUMENTALIST AWARD

ROBERT DAVID LAUVER

LOU ANN PFEIL

THE GEORGE CASTELLE MEMORIAL AWARD IN VOICE

CATHERINE LOUISE THORPE

IN THE SCHOOL OF NURSING

ROBERT G. MERRICK AWARD

to a student demonstrating outstanding leadership in the field of nursing.

*Awarded to BERNARD V. KEENAN*

RESEARCH AWARD

to a student demonstrating intellectual curiosity and creativity in nursing research.

*Awarded to CLARE M. BLAU*

MARY AND GRAINGER MARBURG AWARD

in recognition of a student who consistently exhibits outstanding clinical nursing expertise.

*Awarded to BARBARA W. SCHWEIZER*

ACADEMIC EXCELLENCE AWARD

to a student whose academic performance has been judged to be outstanding.

*Awarded to BARBARA W. SCHWEIZER*

ELEANOR WADE CUSTER AWARD

to a student who most successfully combines commitment to the nursing profession with sensitivity to one's fellow man.

*Awarded to CECIL L. TAYLOR*

## IN THE SCHOOL OF CONTINUING STUDIES

### DELTA SIGMA PI SCHOLARSHIP KEY

in the Division of Administration and Business for the  
highest average in the undergraduate programs

*Awarded to* BRIDGET DUKEHART

### EDWARD J. STEGMAN, C. P. A., MEMORIAL AWARD

in the Division of Administration and Business for  
excellence in the study of Administrative Science at the graduate level

*Awarded to* JOANNA WOO ALLEN  
MICHAEL PAUL CALDWELL  
SHERYL RENEE CONWELL  
ERIC WILLIAM GREGORY  
DAWN SUSAN HEDLEY  
LOUIS HENRY KIRSTNER, JR.  
JENNY GOODMAN MORGAN

### WALL STREET JOURNAL STUDENT ACHIEVEMENT AWARD

in the Division of Administration and Business for outstanding scholarship in the undergraduate  
programs and exceptional promise of future success

*Awarded to* GLORIA BRYAN

## IN THE SCHOOL OF MEDICINE

### HENRY STRONG DENISON SCHOLARSHIP

for excellence in biomedical research

*Awarded to*

GREGORY GOODWIN (1983-84)	RUSSELL LOUIS MARGOLIS (1982-83 & 1983-84)
CATHERINE RUTH HOFF (1983-84)	KENNETH JAMES PIENTA (1983-84)
JULIE ZRUBER LIVINGSTON (1985-86)	MARIO DAVID SALTARELLI 1983-84)
CATHERINE ANNA MARCO (1983-84)	

### SANDOZ AWARD

for excellence in the field of Pharmacology

*Awarded to* JONATHAN ALLEN JAVITCH

### LAUREL AND CLARENCE H. KOENNECKE AWARD

for most promise in the surgical field of gynecology

*Awarded to* ARLENE JOAN MORALES

### THE FRANKLIN PAINE MALL SCHOLARSHIP IN ANATOMY

in recognition of outstanding accomplishment

*Awarded to* CHRISTOPHER GUERIN  
ABRAHAM MICHAEL LINCOFF  
LOIS ELLEN NIELSEN

### THE PAUL EHRLICH AWARD IN CLINICAL INVESTIGATION

in recognition of outstanding research accomplishment

*Awarded to* WILLIAM SETH ARONSTEIN

### THE PAUL EHRLICH GRADUATE STUDENT AWARD

*Awarded to* RAIMOND L. WINSLOW

### THE PAUL EHRLICH AWARD FOR BASIC SCIENCE INVESTIGATION

*Awarded to* ROSARIO RICHARD TRIFILETTI

### HAROLD LAMPORT BIOMEDICAL RESEARCH SCHOLAR

for meritorious research completed during medical training

*Awarded to* EMILY LUCY GERMAIN  
RODNEY SCOTT OWEN

### CIBA AWARD FOR OUTSTANDING COMMUNITY SERVICE

*Awarded to* TRAVIS CASE HOLCOMBE



THE WILLIAM L. STRAUSS, JR. SCHOLARSHIP AWARD  
for outstanding research in Cell Biology and Anatomy  
*Awarded to* KEVIN LAWRENCE GARDNER

MICHAEL A. SHANOFF RESEARCH AWARD  
for significant research contribution in the medical sciences  
*Awarded to*

STEPHEN C. CANNON (1985)  
HANS JOAQUIM PROCHASKA (1986)  
STEPHEN MARK STRITTMATTER (1985)

## IN THE SCHOOL OF HYGIENE AND PUBLIC HEALTH

ALUMNI ASSOCIATION SCHOLARSHIP AWARD  
to a student of outstanding promise

*Awarded in 1981 to* LORRAINE LITWINSKI CAMERON  
*Awarded in 1983 to* JOANNE F. DORGAN

FREDERIK B. BANG AWARD FOR STUDENT RESEARCH  
for an outstanding research idea in the area of Pathobiology  
*Awarded in 1985 to* LESLIE A. LEONARD

RUTH FREEMAN AWARD  
to a nurse deemed to have produced the outstanding doctoral thesis  
*Awarded to* JANE MCANANY JACOBSON  
JANET LEE STANFORD

JOHN C. HUME AWARD  
for significance of doctoral research in  
the Department of Health Policy and Management  
*Awarded to* C. ALAN LYLES

JOHN C. HUME AWARD  
to a Master of Public Health graduate  
for academic excellence and professional promise  
*Awarded to* ROBERT WILLIAM KNELLER

CORNELIUS W. KRUSE AWARD  
for the outstanding dissertation in Environmental Health  
*Awarded to* JEFFREY VAUGHN JOHNSON

LONG AND WIDMONT MEMORIAL FOUNDATION AWARD  
for academic achievement  
*Awarded in 1983 to* JOSEPH GERALDO JACANGELO

## IN THE SCHOOL OF ADVANCED INTERNATIONAL STUDIES

WILLIAM C. FOSTER AWARD  
to a second year student for sound scholarship and a record of leadership  
and distinguished service to SAIS exemplary of the high qualities  
of integrity, loyalty and ability admired in Mr. Foster  
*Awarded to* CHRISTINE BEER BRAUN  
BREWER STEVENSON STONE  
CHUONG TRAN-SI

CHRISTIAN A. HERTER FELLOWSHIP  
to the member of the second year class with the most outstanding  
record during the first year  
*Awarded to* WEI-CHENG WANG

SAIS STUDENT POLICY FORUM PRIZE  
to that student who by written and oral argument has made the most  
cogent presentation on an international policy issue  
*Awarded to* ANNE WILSON MITCHELL

## HONOR SOCIETIES

### PHI BETA KAPPA

From the Junior Class in the School of Arts and Sciences

SUSAN BERNOFSKY  
ANDREA BRUCE  
MICHAEL GATZKE

AMIT GUPTA  
GREGORY HUNG  
ALFONSO IASIELLO

CRYSTAL O'BRYAN  
SANJIV PATEL

From the Senior Class in the School of Arts and Sciences

Elected in 1984-85

KATHLEEN SUSAN FAUST  
ALLEN DAVID HAMDAN  
MARK CHARLES HANNIBAL

PETER CHARLES IACONO  
LAURANCE WING-HONG KAM  
ELIZABETH SHARON KELLY

HYUNG MIN LIM  
SHERI LYNN NIMETZ  
RONIT SIMANTOV

Elected in 1985-86

STEPHEN ANTROBUS  
SANDRA BABCOCK  
MICHAEL BROWN  
LINDA CARRUBA  
RUSS CARSTENS  
STEFANO CAZZANIGA  
MARTIN CITARDI  
PILAR CUESTA  
SUSAN DAUBER  
FRANK DELVECCHIO  
TAMAR DONOVAN

RONALD DeMATTEO  
JOHN DRAGO  
DAN EDIDIN  
LOUISE FERRETTI  
DAVID FRY  
JOAN GO  
ROBIN GUGENHEIM  
AVA HANSEN  
JAY KAUFMAN  
RICHARDO METZ  
VINOD MISRA

JOHN MYSEOS  
KRISHNA NIYOGI  
PETER OEHLKERS  
CHRISTOPHER PADILLA  
LEAH ROSENBERG  
GEORGE RUDKIN  
ANTHONY RUSSO  
JERRY SCHIENXNAYDER  
ANDREW SCHULICK  
TAMMY SMECKER  
NEIL WORRALL

From the School of Medicine

CHRISTOPHER GUERIN

From the School of Hygiene and Public Health

JACQUELINE AGNEW  
MUIN J. KHOURY

### TAU BETA PI

NATIONAL ENGINEERING HONOR SOCIETY

From the Junior Class in the G.W.C. Whiting School of Engineering

MICHELE JULIA ANDRYS  
CLAIRE ANN BATTISTELLA  
TOMASZ MICHAL BEER  
KURT R. BUDELMANN  
LAWRENCE NOAH EISENMAN  
ROBERT CHARLES GENSURE

DOUGLAS GORDON GIBSON  
SUSAN GAIL GOROZDOS  
GARY ANDREW HENRY  
KHALIL AHMED JAOUMI  
STANLEY TIMOTHY LAU  
ELISABETH M. LOUWERS

J. JEREMY RICE  
LUCY DANIEL ROTELIUK  
SCOTT H. SEIDMAN  
ANNE K. SKAJA  
KHALED ALY TAWANSKY  
DAVID H. TERRY

From the Senior Class in the G.W.C. Whiting School of Engineering

Elected in 1984-85

JAMES MATTHEW BURCK  
GREGORY LEE BURKS  
DENNIS ALLEN BURTON  
JAMES THOMAS CARDWELL  
GA-YIN CHAN

JOHN McCANN CUNNIFF  
JAMES THEODORE EVERETT  
ROGER JOSEPH HAJJAR  
CHARN KIATBOONSRI  
MARCIA SARALENE LECRONE  
SUNG MOO LEE

LAURENCE E. MERMELSTEIN  
AYESA NAZNEEN MIAN  
CHRISTIAN VICTOR O'KEEFE  
SANTIAGO PEREZ  
NOELLE ROSE SCALDARA

Elected in 1985-86

ARISTOTLE NICHOLAS BALOGH  
JEANNE CHU  
WILLIAM JOSEPH DWYER  
BARBARA DEAN HAYES  
DUKJIN IM

MARGARET ANGELA KAPPEL  
JOHN FRANCIS KUTCHER  
TRI LUU PHAM  
STEPHEN GORDON PIMENTEL  
NEIL CLEVELAND PORTER  
DAVID MICHAEL PRESSEL

THOMAS ALLEN PRUITT II  
TRISTAN JORGE TAYAG  
KAHUNG GEORGE TING  
WILLIAM RICHARD WAGNER  
WILLIAM EDWARD WALLACE III  
AUDREY THERESE WINGET

From the Part-Time Engineering Program

RUSSELL EDWARD BARYLON  
DAVID HUGH BROWN  
GEORGE RUSSELL DANSBERGER

LANCE MARTIN DAVID  
HENRY JOSEPH FLEISCHMAN  
VERNON WAYNE GRAPES

CHARLES ALAN McEVoy  
JON MORLOCK  
WILLIAM QUILLEN

ALPHA OMEGA ALPHA

HONOR MEDICAL SOCIETY

LEE SCOTT ALBERT  
GREGORY JOHN DUNCAN  
CHRISTOPHER GUERIN  
JONATHAN ALLEN JAVITCH  
SUZANNE JULIA KOVEN  
MOIRA POTASH LARSEN  
STEVEN BERNARD LASTER

ABRAHAM MICHAEL LINCOFF  
CLIFFORD ARTHUR LOWELL  
LOIS ELLEN NIELSEN  
JEFFERY LEE PIERSON  
HANS JOAQUIM PROCHASKA  
BARRY KENNEDY RAYBURN  
MARK STEVEN SCHLISSEL

JAY MARVIN SCHLUMPBERGER  
LINDA ELINOR SKINNER  
ROSARIO RICHARD TRIFILETTI  
THAI DUC TRINH  
DEBBIE LAKIN WEAVER  
JESS THOMAS WHITSON  
MATTHEW R. WOLFF

DELTA OMEGA

NATIONAL PUBLIC HEALTH HONOR SOCIETY

PETER GEOFFREY BARSS  
DEBORAH LYNN BRIMLOW  
LORRAINE LITWINSKI CAMERON  
WILLIAM JOHN CUNNINGHAM  
MARIANNE K. FLOOR-OSSENDRIJVER  
VICTORIA L. HAN  
BRIGITTE HELYNCK  
JANE McANANY JACOBSON  
MICHAEL JOHN KEANE  
MUIN JOSEPH KHOURY

ROBERT WILLIAM KNELLER  
DELORIS ELIZABETH KOZIOL  
JIN HWA LEE  
ROBERT ALAN LIVINGSTON  
MARY FRANCES LOWE  
C. ALAN LYLES  
KELLY TILSON McKEE, JR.  
MARILYN MENKES  
DEBORAH CLAIRE MOLRINE  
EDGAR I. NECOCHEA

RELFORD EUGENE PATTERSON  
KRISHNA GOPAL RAMPAL  
KATHRYN M. ROST  
MOIARA DE MORAES RUEHSEN  
RONA SAYETTA  
SUSAN SCHOBOR  
SARAH RUTH SIMON  
RONALD EDWARD VOORHEES  
KAREN MICHELE WEBSTER  
CURTIS WRIGHT IV

PI KAPPA LAMBDA

NATIONAL MUSIC HONOR SOCIETY

MOLI CHIANG  
MARK KENNERLY CLINTON  
KYOKO FUJIWARA

PAUL GROVE  
JAMES ANDREW JOHN KATCHKO  
KEVIN PARK KENNER

GENEVIEVE FEIWEN LEE  
MARK MARKHAM  
SUN CHIOA-LING

## HONORS

Baccalaureate Candidates in the School of Arts and Sciences

*Graduating with General Honors*

TARA ILLEANA ALLMEN  
STEPHEN DAVID ANTROBUS  
SANDRA LYNN BABCOCK  
JOAN CATHERINE BARTLETT  
BETH DIANE BERMAN  
WILLIAM EMANUEL BINGAMAN  
PHILIP STUART BLUM  
CHRISTOPHER ROBERT BRIGGS  
MICHAEL ERIC BROWN  
MARGARET ELISE BURNS  
MICHAEL DOUGLAS CANTOR  
LINDA LAMAR CARRUBBA  
RUSS PAUL CARSTENS  
SEAN O. CASEY  
GEOFFREY WARD CLEMENT  
PILAR CUESTA  
SUSAN LYNN DAUBER  
FRANK DEL VECCHIO  
RONALD PAUL DEMATTEO  
CHRISTOPHER DISIMONE  
TAMAR ALICIA DONOVAN  
JOHN ANDREW DRAGO  
CATALINO ICASIA DUREZA  
DAN SAMUEL EDIDIN  
WILLIAM C. EDWARDS, III  
KATHERINE LYNN EUBANKS  
KATHLEEN SUSAN FAUST  
DAVID FERNANDEZ  
GIHAN SURANJAN FERNANDO  
PAUL ANTHONY FERRER  
LOUISE EMILY FERRETTI  
DAVID SPOTTS FRY  
CARLA MARIE GIANNONI  
ROBERT ANDREW GILBERT  
JOAN MAYCHU GO  
BRYAN DOUGLAS GOLDBERG  
MARC FREDRICK GREENBERG  
KAREN LOUISE GRISSMER  
ROBIN LYNN GUGENHEIM  
ALLEN DAVID HAMDAN

MARK CHARLES HANNIBAL  
AVA MARILYN HANSEN  
JOHN CHARLES HEIL  
HECTOR HERMANDEZ-JAMARDO  
JAMES GEORGE HOFF  
STEVEN JAY HOWARD  
PETER CHARLES IACONO  
LISA IJIRI  
LAURI MARIE JACKSON  
SANJAYA JHA  
THEODORE JOSEPH JOHNSON  
LAURANCE WING-HONG KAM  
ROBERT KEITH KANNENBERG  
MICHAEL DAVID KARPA  
JAY SCOTT KAUFMAN  
GERALD EDWARD KEIGHTLEY  
ELIZABETH SHARON KELLY  
BABAK KHOSHNOOD  
JOHN CHRISTOPHER KILGALLON  
JONATHAN DAVID KIRSHNER  
LYNN DEBRA KOWALSKI  
JODI CLAIRE KRUGMAN  
ANASTACIA M. KUVSHINOFF  
CHRISTOPHER J. KWON  
ERIC JONATHAN LANG  
JOHN ALBERT LASSEIGNE  
KENALD KYUNG-HOON LEE  
ROBERT LEE  
STEVEN CARL LESOFF  
HYUNG MIN LIM  
DEBORAH GAIL LIMMER  
LOUIS HSI-TEIN LIU  
KATHLEEN ROBERTA LOCKHART  
PATRICK MICHAEL MARDESICH  
ALLAN TODD MARKS  
STEVEN WALTER MEDWID  
PAUL BRUCE MILLER  
NADER ROY MOHTADI  
MICHELE STACI MOISE  
JONATHAN TOBY MORDKOFF

MARYANNA MOSKAL  
WILLIAM JOHN MULLANEY  
JOHN SOCRATES MYSEROS  
ROBERT JOHN NARDINO  
SHERI LYNN NIMETZ  
PETER WILLIAM OEHLKERS  
JOSHUA MARK OLSHIN  
MICHELLE DIANNE ONELLO  
JEFFREY RAWSON PARK  
ACHYUT SHASHIKANT PATEL  
JOHN CHIH PENG  
CATHERINE RAEFF  
MARK WESLEY RECKSON  
CHRISTINE ELLEN RITCHIE  
MATTHEW ROBERT ROCKWOOD  
JEFFREY MARC ROTHFELD  
GEORGE HENRY RUHRIN  
ANTHONY MICHAEL RUSSO  
ANDRE HANI SAAD  
MARK IRA SALEVITZ  
JERRY ANTHONY SCHEXNAYDER  
ANDREW HOWARD SCHULICK  
KIM SEUNGHWAN  
ELLEN MINDY SHULMAN  
AAMIR SIDDIQUI  
RONIT SMANTOV  
DAVID KEITH SIMON  
DAVID ANDREW STEIN  
RITA SURI  
DAVID IAN TEITEL  
WILLIAM VIQUEIRA  
KEVIN DEWAYNE WARD  
JERRY LYNN WATSON  
JORDAN LEE WEINSTEIN  
R. PARKER WILLIAMS, JR.  
RACHEL KATHLEEN WOLFORD  
NEIL KEVIN WORRALL  
ALBERT MIN-HSIEN YOUNG  
AMY ANN ZIMMERMAN

Baccalaureate Candidates in the G.W.C. Whiting School of Engineering

*Graduating with General Honors*

ARISTOTLE NICHOLAS BALOGH  
JAMES MATTHEW BURCK  
GREGORY LEE BURKS  
DENNIS ALLEN BURTON  
CHRISTOPHER CALINGAERT  
JAMES THOMAS CARDWELL  
ILGA CELMINS  
VITUS JOON TSI CHOW  
JOHN McCANN CUNNIFF  
WILLIAM JOSEPH DWYER  
JAMES THEODORE EVERETT  
ROGER JOSEPH HAJJAR

BARBARA DEAN HAYES  
MORGAN CHIH-HSUE HUANG  
DUKJIN IM  
TIMOTHY TAMIM KHATER  
CHARN KIATBOONSRI  
MARCIA SARALENE LEGRONE  
SANGKYUNE LEE  
KAREN JOY LEONG  
ANDREW MENCHING LIU  
LAURENCE E. MERMELSTEIN  
AYESA NAZNEEN MIAN  
MICHAEL NIV

CHRISTIAN VICTOR O'KEEFE  
SHILPESH SHANTILAL PATEL  
STEPHEN GORDON PIMENTEL  
NEIL CLEVELAND PORTER  
DAVID MICHAEL PRESSEL  
ALDEN MARK PROVOST  
THOMAS ALLEN PRUITT, II  
ROBERT GRADY ROBERDS  
NOELLE ROSE SCALDARA  
WILLIAM RICHARD WAGNER  
WILLIAM EDWARD WALLACE, III  
JOHN ANTHONY ZAPPONE

Baccalaureate Candidates in the School of Arts and Sciences

*Graduating with Departmental Honors*

NATHALIE BARBE  
PATRICK BEGOS  
PATRICK CAPUANO  
RUSS CARSTENS  
VINCENT CHUA  
SUSAN DAUBER  
FRANK DELVECCHIO  
MARCUS DE RUIG  
CHRIS DESIMONE  
TAMAR DONOVAN  
DAN EDIDIN  
KATHERINE EUBANKS  
DAVID FERNANDEZ  
GIHAN FERNANDO  
ALAN FREUDENSTEIN  
DAVID FRY

KAREN FYFE  
JOHN GHIKAS  
KAREN GRISSMER  
PETER IACONO  
LISA IJIRI  
LAURI JACKSON  
SANJAYA JHA  
THEODORE JOHNSON  
LAURENCE KAM  
SCOTT KAMBER  
ROBERT KANNENBERG  
JAY KAUFMAN  
JOHN KILGALLON  
JONATHAN KIRSCHNER  
ROBERT LEE  
GORDON LEWIS

RUEL LITTLE  
MARYANNE MOSKAL  
WILLIAM MULLANEY  
SHERI NIMETZ  
PETER OEHLKERS  
JOSHUA OLSIN  
CHRISTOPHER PADILLA  
ARUN RANGASWAMI  
MATTHEW ROCKWOOD  
LEAH ROSENBERG  
RONIT SIMANTOV  
TAMMY SMECKER  
WILLIAM VIQUEIRA  
KEVIN WARD  
JOHN WATERS  
ALBERT YOUNG

*Graduates from the Biology Honors Program*

SANJAYA JHA  
ROBERT LEE

*Graduate from the Humanistic Studies Honors Program*

ELIZABETH KELLY  
TYRUS MILLER

Baccalaureate Candidates in the G.W.C. Whiting School of Engineering  
*Graduating with Departmental Honors*

ARISTOTLE BALOUGH	MORGAN HUANG	DAVID PRESSEL
THOMAS BEER	DUKJIN IM	ALDEN PROVOST
KELLY BOYD	CHARN KIATBOONSRI	THOMAS PRUITT
JAMES BURCK	JOHN KUTCHER	GEORGE RAISER
GREGORY BURKS	CAROL LEBOWITZ	ROBERT ROBERDS
DENNIS BURTON	MARCIA LECRONE	NOELLE SCALDARA
JAMES CARDWELL	SANGKUNE LEE	MICHAEL SILVERMAN
CHRISTOPHER CALINGAERT	SUNG LEE	TRISTEN TAYAG
ILGA CELMINS	KAREN LEONG	KAHUNG TING
JOHN CUNIFF	LAURENCE MERMELSTEIN	CHRISTIAN TURNER
WILLIAM DWYER	SHILPESH PATEL	WILLIAM WAGNER
JAMES EVERETT	TRI PHAM	WILLIAM WALLACE
ROGER HAJJAR	MICHAEL PHILLIPS	JOHN ZAPPONE
BARBARA HAYES	STEPHEN PIMENTAL	
MARCY HERMAN	NEIL PORTER	

Baccalaureate Candidates in the School of Continuing Studies  
*Graduating with Honors*

CYNTHIA ANN BELL	PHILLIP FOOTE, JR.	MARK LEWITAN
LINDA BIHUN-WERNER	LINDA GRAHAM	ESTHER LUPTON
ALAN JAY BLUMENTHAL	ALBERT GRIFFITH	SHIRLEY POLING
GLORIA BRYAN	JOHN KOELBL	

# CANDIDATES FOR DEGREES

as of May 13, 1986

A number of the students included in the lists which follow completed their degree requirements earlier in the academic year and could not be present today to receive their degrees in person.

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## BACHELORS OF ARTS

in The School of Arts and Sciences

David K. Ades, of Babylon, N. Y.  
Tara Illeana Allmen, of New York, N. Y.  
Saeed Aminzadeh, of Tehran, Iran  
Andrew Paul Amunategui, of Hallandale, Fla.  
Stephen David Antrobus, of Baton Rouge, La.  
Luis Raul Arroyo, of San Juan, Puerto Rico  
Douglas Leonard Atlas, of Warren, N. J.  
Herman Palileo Ayayo, of Emerson, N. J.  
Farrukh Amin Azfar, of Karachi, Pakistan  
Sandra Lynn Babcock, of Lutherville, Md.  
Sujata Christine Banerjee, of St. Paul, Minn.  
John H. Banister, of Rowlesburg, W. Va.  
Nathalie Joe Barbe, of New York, N. Y.  
William Neal Barnett, of College Park, Md.  
Alan Michael Barry, of Chapel Hill, N. C.  
Joan Catherine Bartlett, of Cape Girardeau, Mo.  
John William Barton, of Weston, Conn.  
Patrick Walter Begos, of Crestwood, N. Y.  
Regina Mary Beleckas, of Haganan, N. Y.  
Geoffrey Thomas Bender, of Wayside, N. J.  
Ronald M. Benoit, of Oakhurst, N. J.  
Melissa Rachel Berger, of New Haven, Conn.  
Andrew Charles Bilello, of Setauket, N. Y.  
William Emanuel Bingaman, of Camp Hill, Pa.  
Rebecca Marie Bjornson, of Fairfax, Va.  
Philip Stuart Blum, of Dallas, Texas  
Anne Catherine Bobchick, of Brooklyn, N. Y.  
Stephanie Clintowia Boddie, of Baltimore, Md.  
Matthew Richard Hook Borsch, of Berkeley, Calif.  
Virginia Aileen Boundy, of Orleans, Mass.  
Morgan Lou-Jacques Brache, of Calgary, Canada  
Michael John Brady, of Whitestone, N. Y.  
Karrie Ann Brenneman, of Clemmons, N. C.  
Jennifer Lynn Brezenoff, of East Rockaway, N. Y.  
Craig Alan Brooks, of Essex, Md.  
Deane Beth Brown, of Highland Park, Ill.

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Surinder Sachar, of East Amherst, N. Y.  
Noelle Rose Scaldara, of Ellicott City, Md.  
Judith Lynne Schmidt, of Indian Mills, N. J.  
Toyozo Shimano, of Tenaftly, N. J.  
Lawrence Silvermintz, of East Rockaway, N. Y.  
Tristan-Jorge Balbino Tayag III, of Timonium, Md.  
Johna Marie Till, of Villanova, Pa.  
Jeanne Isabella Toussaint, of Bel Air, Md.  
Nathalie Paule Van Heusden, of Brussels, Belgium  
James J. Walsh III, of Poughkeepsie, N. Y.  
Justin Yongjin Won, of Encino, Calif.  
Peter M. Zdinak, of Stilwell, Kan.

## BACHELOR OF SCIENCE IN ENGINEERING MECHANICS

in The G.W.C. Whiting School of Engineering

Harold Lynn Brunette, of Portland, Ore.  
Karen Joy Leong, of Honolulu, Hawaii  
Thomas Allen Pruitt II, of Baltimore, Md.

George Francis Raiser, of Cold Spring Harbor, N. Y.  
Jason Mitchell Shapiro, of Aberdeen, N. J.

## BACHELORS OF SCIENCE IN MATERIALS SCIENCE AND ENGINEERING

in The G.W.C. Whiting School of Engineering

Otto Edward Artfitch, Jr., of New Windsor, Md.  
Robert Arthur Cieswick, of Piscataway, N. J.  
Ellen Lee Erickson, of Annapolis, Md.  
Carol Ann Lebowitz, of Annapolis, Md.  
N. Eric Arthur Lindgren, of Lindersvik, Sweden  
Ronald P. Painter, of Acme, Pa.

Michael Stuart Phillips, of Baltimore, Md.  
Alan Steven Raynes, of Baltimore, Md.  
Michael Eric Silverman, of Pittsburgh, Pa.  
Grace H. Tung, of Pittsburgh, Pa.  
Christian Dean Turner, of Baltimore, Md.  
William Edward Wallace III, of Silver Spring, Md.

## BACHELORS OF SCIENCE IN MATHEMATICAL SCIENCES

in The G.W.C. Whiting School of Engineering

Denise Caputo, of Brooklyn, N. Y.  
James Theodore Everett, of Baltimore, Md.  
Christopher Albert Hane, of Randallstown, Md.  
David Peter Hayward, of Southborough, Mass.

Cristopher Merritt, of Voorheesville, N. Y.  
Peter Christopher Mitchell, of Wintersville, Ohio  
Susan Irena Raimondo, of Port Washington, N. Y.

## BACHELORS OF ARTS

in The G.W.C. Whiting School of Engineering

Elizabeth Anne Altman, of Ellicott City, Md.  
Tomasz Michal Beer, of Rockville, Md.  
Kenneth Thomas Connor, of Bethesda, Md.  
Bartolome Rey deCastro III, of Towson, Md.  
Vernon W. L. Huang, of Hillsborough, Calif.  
Margaret Angela Kappel, of Middletown, N. J.  
Richard Scott Levin, of Baltimore, Md.

Sarah Benilda Mallonga, of Baltimore, Md.  
Christopher John Mengler, of Old Westbury, N.Y.  
Alan Ira Rebenstock, of Roslyn, N. Y.  
Himanshu Probhaker Shukla, of North Bergen, N. J.  
Douglas Vernon Wehberg, of Baltimore, Md.  
Thomas Richard Windisch, of Austin, Texas.

## BACHELORS OF CIVIL ENGINEERING

in The G.W.C. Whiting School of Engineering

Nestor J. Cardona, of Baltimore, Md.  
Kate B. Carus, of Baltimore, Md.

Henry Joseph Fleischman, of Baltimore, Md.

## BACHELORS OF ELECTRICAL ENGINEERING

in The G.W.C. Whiting School of Engineering

Donald Brion Anderson, of Catonsville, Md.  
Michael Douglas Bender, of Glen Burnie, Md.  
Gregory Scott Bengston, of Fallston, Md.  
Stephen Martin Bengston, of Monkton, Md.  
Steven Arthur Brosey, of Baltimore, Md.  
Richard A. Budd, Jr., of Baltimore, Md.  
Robert Andre Casanova, of Crownsville, Md.  
James Joseph Connolly, of Baltimore, Md.  
Loren Robert Douglass, of Baltimore, Md.  
Jeffrey Cole Frazier, of Stevensville, Md.  
James Henry Freed, of Baltimore, Md.  
Darryl Curtis Friday, of Hanover, Md.  
Jean Denise Gaylord Person, of Baltimore, Md.  
Vernon Wayne Grapes, of Silver Spring, Md.  
Karl Michael Gumnick, of Timonium, Md.; A.A. Essex  
Community College, 1979.  
Mary Claire Hauer, of Monkton, Md.  
Walter Swen-Hans Heyck, of Phoenix, Md.

Thomas E. Lentscher, of Odenton, Md.; A.A. Anne  
Arundel Community College, 1980.  
Jerome Miller, of Odenton, Md.  
Richard Kirby Moore, of Cockeysville, Md.  
Frank Edward Morel, of Baltimore, Md.  
Jon Eric Morlock, of Pasadena, Md.  
Lye Huat Ong, of Catonsville, Md.  
Richard Joseph Palleschi, of Baltimore, Md.  
Christine Raux Putnam, of Pasadena, Md.  
David Wayne Quasny, of Baltimore, Md.  
William Ernest Quillen, of Baltimore, Md.  
Michael Raymond Redgraves, of Glen Burnie, Md.  
Louis Ruppert Robinson, of Baltimore, Md.; A.A. Com-  
munity College of Baltimore, 1980.  
Michael David Shipley, of Baltimore, Md.  
R. Mitchell Vittek, of Baltimore, Md.  
Joseph Wesley Zolenas, of Bradshaw, Md.



## BACHELORS OF INDUSTRIAL ENGINEERING

in The G.W.C. Whiting School of Engineering

Gregorio Depante Aragon, of Pikesville, Md.  
Linwood James Bazemore, of Baltimore, Md.  
Dennis Henry Coster, of Baltimore, Md.  
Joseph S. Dellinger, of Baltimore, Md.  
Michael Joseph Devine, of Baltimore, Md.  
Gary M. Ehmka, of York, Pa.  
Charles John Fader, of Baltimore, Md.

H. Blake Gardner, of Baltimore, Md.  
Lois Anne Krupinsky, of Randallstown, Md.  
Charles Alan McEvoy, of Finksburg, Md.  
Joseph James Myers, of Baltimore, Md.  
Francis Xavier Strauch, of Baltimore, Md.  
Richard Ralph Wittich, of Baltimore, Md.; A.A. Catonsville Community College, 1968.

## BACHELORS OF MECHANICAL ENGINEERING

in The G.W.C. Whiting School of Engineering

Dennis Patrick Bolt, of Perry Hall, Md.  
Brian J. Borgealt, of Baltimore, Md.  
Steven Raymond Cover, of Baltimore, Md.  
Ali Deray, of Towson, Md.  
James Patrick Downey, of Linthicum, Md.  
Caris Alan Hatfield, of Arnold, Md.  
Melinda B. Krummerich, of Baltimore, Md.  
Michael Anthony Lamont, of Relay, Md.  
John Francis Lennon, of Baltimore, Md.  
Anthony Lovalvo, of Eldersburg, Md.; A.A. Essex Community College, 1976; 1978.  
Mark Thomas MacLean-Blevins, of Westminster, Md.

Louis Albert Mattes, of Glen Burnie, Md.  
William W. McKeithan, of Towson, Md.  
Timothy William Sears, of Bel Air, Md.  
William Hershel Smith, of Baltimore, Md.  
David Brian Svrjcek, of Baltimore, Md.; A.A. Essex Community College, 1980.  
Charles K. Wakefield, of Baltimore, Md.  
Mark E. Warns, of Baltimore, Md.  
George Washington Wenner, of Glen Burnie, Md.; B.S. Loyola College, 1975.  
Paul Wilson IV, of Baltimore, Md.  
Jeffrey Gregg Wolford, of Sykesville, Md.

## PERFORMERS CERTIFICATE

in The Peabody Conservatory of Music

Carol Ann Bruner, of Hightstown, N.J. Trumpet.  
Barry Briggs Dove, of Baltimore, Md. Percussion.  
Thomas S. Edwards, of Glen Arm, Md. Trumpet.  
Peter Scott Hengen, of Baltimore, Md. Trumpet.

William Jerome McMullen, Jr., of Tampa, Fla. Trumpet.  
Marc A. Ramirez, of Arlington, Va. Violin.  
Andrew Jason Rogers, of Baltimore, Md. Trumpet.

## BACHELORS OF MUSIC

in The Peabody Conservatory of Music

Said Shafti Amini, of Ahvaz, Iran. Guitar.  
David Bahanovich, of Amherst, N.Y. Violoncello.  
Susanne Rita Balko, of Hamburg, N.Y. Horn.  
Brian Robert Banks, of Seattle, Wash. Composition.  
Robert Scott Beard, of Rockville, Md. Piano.  
Svetlana Belsky, of Skokie, Ill. Piano.  
Kristie Renée Born, of Pompano Beach, Fla. Piano.  
Carol Ann Bruner, of Hightstown, N.J. Music Education.  
Baruch Brutman, of Netanya, Israel. Violin.

Geoffrey Larkin Burleson, of Las Cruces, N.M. Piano.  
Charles Andrew Casey, of Hunt Valley, Md. Trombone.  
Michael Andrew Couch, of Grand Junction, Colo. Voice.  
Anna Maria Patricia de Freitas, of North Baldwin, N.Y.  
B.M. Peabody Conservatory of Music, 1984. Recording Arts and Sciences.  
Margaret Lyle Demarest-Few, of Baltimore, Md. Music Education and Trumpet.  
Barry Briggs Dove, of Baltimore, Md. Music Education.

Thomas S. Edwards, of Glen Arm, Md. Music Education.  
 Randall Scott Evans, of Erie, Penna. Composition.  
 Kyoko Fujiwara, of Evanston, Ill. Piano.  
 John Francis Gibbons, of Richfield, Minn. Composition.  
 Paul Grove, of Philadelphia, Penna. Guitar.  
 Edward Duffield Harsh, of Lancaster, Penna. Composition.  
 Peter Scott Hengen, of Baltimore, Md. Music Education.  
 Peter A. Kates, of Bellingham, Mass. Percussion.  
 Ronen Abraham Kory, of Petah Tikva, Israel. Violoncello.  
 Robert David Lauver, of Kalamazoo, Mich. Horn.  
 Genevieve Feiwen Lee, of York, Penna. Piano.  
 Kevin Park Kenner, of Coronado, Calif. Piano.  
 Norman Lee Ting Keung, of Hong Kong. Piano.  
 Mark R. Martin, of Hollywood, Fla. Horn.  
 Lucy Marie Mauro, of Williamsport, Penna. Piano.  
 Charles Franklin McKinstler, of Arnold, Md. Violoncello.  
 William Jerome McMullen, Jr., of Tampa, Fla. Music Education.  
 David J. R. Meaux, of Lafayette, La. Music Education.  
 Frederick James Craven Merida, of Louisville, Ky. Piano.  
 Helen Louise Moore, of Cincinnati, Ohio. Piano.

Celina Gale Muschel, of Syracuse, N.Y. Piano.  
 Marina Elizabeth Nielsen, of Hamilton, Ontario, Canada. Violoncello.  
 Robert Byron O'Brien, of Columbus, Ga. Violoncello.  
 Nae Hugh Pearson, III, of Lynchburg, Va. Organ.  
 Lou Ann Pfeil, of Houston, Texas. Bassoon.  
 David Bruce Reynolds, of Haverford, Penna. Guitar.  
 Thomas D. Robinson, III, of Hampton, Va. Composition.  
 Andrew Jason Rogers, of Baltimore, Md. Music Education.  
 Raymond John Rossiter, of Churchville, N.Y. Horn.  
 Linda Sue Simon, of White Plains, N.Y. Violin.  
 Suzanne S. Simon, of Union City, Penna. Voice.  
 Karen Lynn Small, of Wilmington, Del. Flute.  
 Karen Lea Sorensen, of Tacoma, Wash. Violin.  
 William Tan, of Singapore, Republic of Singapore. Violin.  
 Maria Tegzes, of Trenton, N.J. Voice.  
 Catherine Louise Thorpe, of New Paltz, N.Y. Voice.  
 Dmitry Volynsky, of Randallstown, Md.; B.M. Peabody Conservatory of Music, 1985. Music Education.  
 Wu Wang, of Shanghai, China. Violin.  
 Yoon Young Joo, of Port Washington, N.Y. Piano.

## BACHELORS OF SCIENCE

in The School of Nursing

Linda Washington Alford, of Baltimore, Md.; M.S. Westminster College, 1977.  
 Annina Arthes, of Baltimore, Md.; B.S. University of Maryland, 1982.  
 Clare Montgomery Blau, of Annapolis, Md.  
 Lynneanne E. Chaney, of Fort Meade, Md.; B.S. Southern Connecticut State College, 1978.  
 Cynthia Diane Collingwood, of Port Norris, N.J.  
 Nancy Lorena Davis-Griffin, of Baltimore, Md.; B.S. Towson State University, 1972.  
 Maria Josefina D. Figueroa, of Lavale, Md.  
 Diane Marie Fox, of Cockeysville, Md.  
 Susan Marie Germano, of Williamsville, N.Y.  
 Rina Sonya Gordon, of Silver Spring, Md.  
 Margaret Frances Grasham, of Baltimore, Md.  
 Eugenia Barker Harper-Jones, of Lanham, Md.; M.H.S. The Johns Hopkins University, 1975.  
 Mary Kathleen Jenkins, of Memphis, Tenn.

Bernard Vincent Keenan, of Ellicott City, Md.  
 Lauren Kate McKee, of Longwood, Fla.; B.A. The Johns Hopkins University, 1984.  
 Mary Patricia Monaghan, of Sherwood Forest, Md.  
 Ramona Marie Murphy, of Baltimore, Md.  
 Elizabeth Ann Packer, of Windber, Pa.; B.A. University of Pittsburgh, 1979.  
 John Dominic Rosella IV, of Greenville, Miss.; B.S. Millsaps College, 1984.  
 Susanne Waltraud Scharnhorst, of Columbia, Md.  
 Denise Gynn Schwarz, of Arnold, Md.  
 Barbara Wilson Schweitzer, of Brooklandville, Md.  
 Karen Sue Shumar, of Baltimore, Md.  
 Heidi Christine Soppeland, of Santa Barbara, Calif.  
 Marianne Struntz, of Cumberland, Md.  
 Cecil Leroy Taylor, of Baltimore, Md.  
 Lynne Margaret Walser, of Baltimore, Md.; M.T.A. Johns Hopkins University, 1968.

## ASSOCIATES OF ARTS

in The School of Continuing Studies

Ann Kelly Adams, of Baltimore, Md.  
 Denise Anne Debus, of Reisterstown, Md.  
 Nancy Patricia Grzymala, of Shrewsbury, Pa.

Regina Phyllis Minniss, of Baltimore, Md.  
 Sharon Marchant Ward, of Baltimore, Md.

## ASSOCIATES OF SCIENCE

### in The School of Continuing Studies

Edward Carroll Adams, of Glen Arm, Md.  
 Stewart Joel Ausfresser, of Catonsville, Md.  
 Joseph David Auslander, of Baltimore, Md.  
 Eric Hastings of Brown, of Frederick, Md.  
 Thomas Patrick Considine, of Baltimore, Md.; B.A. University of Maryland, Baltimore County, 1976.  
 Vincent DiFatta, of Baldwin, Md.; B.A.S. Siena Heights College, 1980.  
 William Ridgely Dixon, of Finksburg, Md.  
 Daniel V. Ens, of Lutherville, Md.  
 Joseph Leo Euker, of Reisterstown, Md.; A.A. Penn State University, 1979.  
 Bruce Jonathan Evans, of Baltimore, Md.  
 Donald James Fritzges, of Baltimore, Md.  
 William J. A. Gross, of Westminster, Md.  
 George Charles Gummer, of Edgewood, Md.  
 Andrew Howard, of Baltimore, Md.  
 Kenneth Wayne Iwanowski, of Baltimore, Md.  
 Perry Jerome Jones, of Baltimore, Md.  
 Delores K. Layson, of Baltimore, Md.  
 Carl August Letwinsky, Jr., of Pasadena, Md.

Ralph W. Lewis, Jr., of Baltimore, Md.  
 Jordan Loran, of Baltimore, Md.  
 Larry Anthony Manuel, of Sykesville, Md.  
 Leonard Mines, of Baltimore, Md.  
 Amy Judith Murtha, of Linthicum, Md.  
 Paul John Myers, of Baltimore, Md.  
 Ronald Bernard Ohara, of Baltimore, Md.  
 Scott Roycroft, of Airville, Pa.  
 Todd Evan Schlesinger, of Baltimore, Md.  
 Bruce Howard Shetrone, of Pasadena, Md.  
 Dale Michael Skrakowski, of Baltimore, Md.; A.A. Essex Community College, 1982.  
 Carl Richard Spencer, of Westminster, Md.  
 Robert W. Sutton, of Baltimore, Md.  
 Donald Lee Tormollen, of Baltimore, Md.  
 Aldo Michael Vitucci, of Baltimore, Md.  
 Thomas Edward Wallace, of Baltimore, Md.  
 Mark David Wecht, of Owings Mills, Md.  
 Dwight James Weller, of Timonium, Md.  
 Sean Lamont Westley, of Baltimore, Md.

## BACHELORS OF SCIENCE

### in The School of Continuing Studies

Marc Edward Anderson, of Baltimore, Md. Management.  
 Samuel Edward Arbutnot III, of Baltimore, Md. Mathematics.  
 Agnes Theresa Ashe, of Baltimore, Md. Nursing.  
 Vivian O. Ashton, of Landover, Md.; A.A. Prince George Community College, 1983. Education.  
 Ramona Myers Baptiste, of Washington, D.C.; Diploma, Maiden School of Nursing, 1971. Social Sciences.  
 Robert F. Beasley, of Baltimore, Md. General Business.  
 Cynthia Ann Bell, of Baltimore, Md. Nursing.  
 Linda Kay Strickland Bihun-Werner, of Baltimore, Md. History.  
 Alan Jay Blumenthal, of Baltimore, Md. Life Sciences.  
 Marion Winans Borgese, of Arnold, Md. Nursing.  
 Colleen Elizabeth Bowers, of Baltimore, Md. Nursing.  
 Margaret L. Brazil, of Cockeysville, Md. Nursing.  
 Gloria J. Bryan, of Linthicum, Md. Management/Leadership.  
 Marsha Jean Butler, of Baltimore, Md.; A.A. Essex Community College, 1980. Social Sciences.  
 Carol Seal Calvert, of Baltimore, Md. Nursing.  
 Katherine Elizabeth Condon, of Baltimore, Md.; A.D.N. Columbus Technical Institute, 1974. Nursing.  
 Martha Ann Conlon, of Baltimore, Md. Nursing.  
 Joseph Jerard Daniels, of Baltimore, Md. Mathematics.  
 Rosemary M. Darone, of Baltimore, Md. Management/Leadership.

Christine Marie Davitt, of Towson, Md. English.  
 Bridget Dukehart, of Westminster, Md. Management/Leadership.  
 Elizabeth Ann Evins, of Annapolis, Md. Social Sciences.  
 Nancy J. Finson, of Baltimore, Md. Liberal Studies.  
 Isaiah Meyer Florence, of Sharon, Mass. Life Sciences.  
 Phillip Joseph Foote, Jr., of Rossville, Md. Management.  
 Joanne Frantz, of Baltimore, Md. Management.  
 Rupert Henry Furgerson II, of Annapolis, Md.; A.A. MCC of the University of Kentucky, 1972. Management/Leadership.  
 Yvonne Dolores Garcia, of Owings Mills, Md. Management/Leadership.  
 Cynthia Jane Garland, of Baltimore, Md. English.  
 Robert Bruce Glock, of Joppa, Md. Mathematics.  
 Dale Ann Blumenthal Goldheim, of Baltimore, Md. Psychology.  
 Linda Graham, of Baltimore, Md.; A.A. The Johns Hopkins University, 1983. Liberal Studies.  
 Edward R. Griffin, of Kingsville, Md.; A.A. Essex Community College, 1982. Management.  
 Albert Verner Griffith, of Randallstown, Md. General Business.  
 Spurgeon C. Grove, Jr., of Annapolis, Md. Mathematics.  
 Linda May Hanifin, of Greenbelt, Md. Social Sciences.  
 Catherine Ann Harper, of Phoenix, Md. General Business.  
 Darlene M. Harper, of Rockville, Md. Nursing.



- Athena Hope Harris, of Baltimore, Md. Management.  
 Mark Phillip Hastings, of Baltimore, Md. Life Sciences.  
 Paul Erwin Heinrich, of Baltimore, Md. Psychology.  
 Orman Donald Higgins, of Baltimore, Md. General Business.  
 Saul Horowitz, of Baltimore, Md. Life Sciences.  
 Susan Hamacher Jablecki, of Baltimore, Md. Nursing.  
 Carol Susan James, of Baltimore, Md. Life Sciences.  
 Deborah Lee Kahl, of Baltimore, Md.; A.A. Essex Community College, 1980. Nursing.  
 John Koelbl, of Baltimore, Md. Accounting.  
 Aaron Steven Levine, of Baltimore, Md. Mathematics.  
 Mark Isaac Lewitan, of Baltimore, Md. Life Sciences.  
 Ann Hillard Lilly, of Baltimore, Md.; B.A. Washington College, 1972. Nursing.  
 Esther F. Lupton, of Baltimore, Md. General Business.  
 Andrew M. Maszaros, Jr., of Kingsville, Md. Mathematics.  
 Terra Ann McFee, of Baltimore, Md. Management/Leadership.  
 Bruce Morton, of Reisterstown, Md.; A.A. Prince Georges Community College, 1975. General Business.  
 Elena Latham Murphy, of Baltimore, Md. Nursing.  
 Nancy Ann Nale, of Baltimore, Md. Social Sciences.  
 Ann Marie O'Connor, of Havertown, Pa. Liberal Studies.  
 Brenda Lane Oliver, of Randallstown, Md. Management/Leadership.  
 Sarah L. Pickeral, of Baltimore, Md. Management/Leadership.  
 M. Kathleen Pipkin, of Baltimore, Md. English.  
 Shirley Dubis Poling, of Reisterstown, Md. Nursing.  
 Roberta Margaret Preston, of Baltimore, Md. Management/Leadership.  
 Sarah Jane Rech, of Timonium, Md. Nursing.  
 Anita Marie Reedy, of Bel Air, Md. Nursing.  
 Theresa Anne Rosen, of Bradshaw, Md. Nursing.  
 Cynthia L. Rosenberger, of Baltimore, Md. Nursing.  
 Joy Wilson Rousey, of Baltimore, Md. Nursing.  
 Anthony Joseph Santoro, of Baltimore, Md. Mathematics.  
 Deanna Ellen Schneider, of Cockeysville, Md.; B.S. Towson State University, 1980. Nursing.  
 Connie J. Simon, of Wheaton, Md. Management/Leadership.  
 Diana Patricia Smith, of Baltimore, Md. Physical Sciences.  
 William Charles Taylor IV, of Baltimore, Md. Management/Leadership.  
 Jaime Canoy Tolentino, of Reisterstown, Md. Physical Sciences.  
 Gwen Burrows Tromley, of Baltimore, Md. Political Science.  
 Patricia Lemmon Van Deursen, of Baltimore, Md. Nursing.  
 Samuel Wealcath, of Baltimore, Md. Life Sciences.  
 Karen Anne Williams, of Towson, Md. Nursing.

## MASTERS OF SCIENCE

### in The School of Continuing Studies

- Connie R. Adamson, of Columbia, Md.; B.A. University of North Dakota, 1967. Applied Behavioral Science.  
 Betty Hall Addison, of Baltimore, Md.; B.A. St. Augustines College, 1971. Education.  
 Brenda Kay Altland, of Dallastown, Pa.; B.S. Pennsylvania State University, 1980. Education.  
 Barry Michael Amass, of Baltimore, Md.; B.S. Towson State University, 1976. Education.  
 Gerald R. Amelse, of Ellicott City, Md.; B.A. Divine Word Seminary, 1955. Applied Behavioral Science.  
 Laura Baylin Anderson, of Newark, Del.; B.A. Lincoln University, 1972. Applied Behavioral Science.  
 Walter D. Appleby, of Columbia, Md.; B.G.S. University of Maryland, 1975; B.S., 1979. Education.  
 Betsy J. Ayer, of Ellicott City, Md.; B.A. Wilson College, 1954. Education.  
 Harriett Katz Bachman, of Columbia, Md.; B.A. Chatham College, 1969. Applied Behavioral Science.  
 Karen Lee Banghart, of Columbia, Md.; B.S. Slippery Rock University, 1983. Education.  
 Robert Francis Bates, of Joppa, Md.; B.S. Marian College, 1957. Education.  
 Nancy Carol Begeny, of Ellicott City, Md.; B.S. Westminster College, 1957. Education.  
 Mary Ann Dribnak Black, of Baltimore, Md.; B.S. George Washington University, 1977. Applied Behavioral Science.  
 Rena M. Blank, of Baltimore, Md.; A.A. Community College of Baltimore, 1964; B.F.A. Maryland Institute of Arts, 1966. Education.  
 Karen Bond-Louden, of Baltimore, Md.; B.A. Duke University, 1980. Applied Behavioral Science.  
 Paul Aaron Boston, of Severn, Md.; M.S. American University, 1972. Education.  
 Gregory A. Bowen, of Prince Frederick, Md.; B.S. St. Mary's College of Maryland, 1975. Urban Planning and Policy Management.  
 Jeffrey Blair Bowling, of Cockeysville, Md.; B.S. Virginia Polytechnic Institute, 1976; M.B.A., 1981. Urban Planning and Policy Management.

- Arnetta Boyd, of Baltimore, Md.; B.S. Coppin State College, 1974. Education.
- Shirley May Breitenother, of Baltimore, Md.; B.A. College of Notre Dame of Maryland. Education.
- Theresa Davisson Briley, of Baltimore, Md.; B.S. The Johns Hopkins University, 1984. Applied Behavioral Science.
- Elizabeth Moyer Brogan, of Takoma Park, Md.; B.A. Hood College, 1978. Education.
- Joyce Ann Brown, of Baltimore, Md.; M.Ed. The Johns Hopkins University, 1974. Education.
- Nancy Ellen Burgess, of Columbia, Md.; B.A. University of Maryland, 1981. Education.
- John Jaye Burkhardt, of Woodlawn, Md.; B.S. United States Merchant Marine Academy, 1974. Education.
- Jacquelyn Brownlow Caldwell, of Fallston, Md.; M.Ed. Mansfield State College, 1979. Education.
- Vincent Cammarota, of Baltimore, Md.; B.S. Towson State University, 1984. Applied Behavioral Science.
- Lorraine W. Carey, of Baltimore, Md.; B.S. Bowie State College, 1973. Education.
- Antoinette Newman Carr, of Glen Burnie, Md.; B.A. University of Maryland, 1979. Education.
- Karen Marie Carroll, of Baltimore, Md.; B.S.N. University of Maryland, 1977. Education.
- Cassandra J. Carter, of Baltimore, Md.; B.A. Morgan State University, 1979. Education.
- Mary B. Cavalier, of Long Island, N.Y.; B.A. Point Park College, 1982. Education.
- Betty Schaeen Cazer, of Baltimore, Md.; B.A. Morgan State College, 1982. Urban Planning and Policy Management.
- Geraldine Kirsch Chandler, of Lancaster, Pa.; B.A. Pennsylvania State University, 1961. Education.
- Sujittra Chaturongkul, of Baltimore, Md.; B.A. University of Pennsylvania, 1983. Education.
- Howard Douglas Chilcoat, Jr., of Baltimore, Md.; B.A. Haverford College, 1980. Education.
- Brigid Peach Claffy, of Baltimore, Md.; B.S. Towson State University, 1978. Education.
- Cristin Coblentz, of Takoma Park, Md.; B.A. Hartwick College, 1979. Education.
- Elizabeth A. Coe, of Baltimore, Md.; B.S. University of Delaware, 1977. Education.
- Ilene K. Cohen, of Timonium, Md.; B.A. American University, 1969. Education.
- Wendy S. Cohen-Holbrook, of Columbia, Md.; B.S. Emerson College, 1978. Education.
- Judith Collingsworth, of Baltimore, Md.; B.S. University of Maryland, 1980. Education.
- Arline Lockerbie Colvin, of Baltimore, Md.; B.A. Indiana University, 1958. Education.
- Mark Anthony Compton, of Randallstown, Md.; B.A. University of Maryland, 1976. Education.
- M. Adele Baker Considine, of Baltimore, Md.; B.A. College of Notre Dame of Maryland, 1979. Education.
- Janet Jefferson Coppage, of Baltimore, Md.; B.S. Frostburg State College, 1976. Education.
- Dianne Evalyn Cotter, of Miami, Fla.; B.A. University of Miami, 1966; M.Ed. University of Hartford, 1971. Education.
- Earl Michael Crusse, Jr., of Owings Mills, Md.; B.S. University of Maryland, 1981. Education.
- Mark Dear, of Baltimore, Md.; B.T.L. Ner Israel Rabbinical College, 1983. Education.
- Carol Pavlick Deibel, of Forest Hill, Md.; B.S. Towson State University, 1981. Urban Planning and Policy Management.
- Betty Jane Deise, of Baltimore, Md.; B.S. Towson State University, 1979. Applied Behavioral Science.
- Jutta Klonus Derringer, of Crofton, Md. Education.
- Georgia Loretta Diggins, of Pikesville, Md.; B.S. Hampton Institute, 1971. Education.
- Michele E. Dilegge, of Baltimore, Md.; B.A. University of Maryland, 1980. Education.
- Argreader Durr-Poole, of Columbia, Md.; B.A. Ursuline College, 1977. Applied Behavioral Science.
- Carol Ann Eads, of Baltimore, Md.; B.S. Towson State University, 1978. Education.
- Marcene Ellen Edelman, of Columbia, Md.; B.A. University of Maryland, 1969. Applied Behavioral Science.
- Lois J. Emershaw-Machinist, of Baltimore, Md.; B.S. The Johns Hopkins University, 1981. Education.
- Barbara Dunlap Eriksson, of Arnold, Md.; B.A. Stetson University, 1961; M.A., 1965. Education.
- Edmund Eric Evans, of Columbia, Md.; B.S. Frostburg State College, 1971; M.A. California State University at Long Beach, 1977. Education.
- Michelle Jessica Falk, of Miami, Fla.; B.S. University of Maryland, 1984. Applied Behavioral Science.
- Linda I. Figert, of Silver Spring, Md.; B.S. University of Maryland, 1977. Education.
- Cheryl Lea Flater, of Timonium, Md.; B.A. Northeastern University, 1971. Education.
- Joanna F. Franklin, of Baltimore, Md.; A.A. Essex Community College, 1976; B.S. The Johns Hopkins University, 1983. Education.

- Nancy Ann Friedman, of Baltimore, Md.; B.S. Syracuse University, 1981. Education.
- Penny Ortel Friesland, of Columbia, Md.; B.S. Towson State University, 1960. Education.
- Sharon Ecker Gard, of Dundalk, Md.; B.S. Towson State University, 1982. Applied Behavioral Science.
- Joan Gavin, of Baltimore, Md.; B.S. Coppin State College, 1981. Applied Behavioral Science.
- Susan Marie Geiger, of Greenbelt, Md.; B.A. University of Northern Colorado, 1979. Education.
- Susan P. Gerrish, of Westerly, R.I.; B.A. Mt. Vernon College, 1977. Education.
- Deborah Susan Novak Glasgow, of Baltimore, Md.; B.S. Towson State University, 1980. Education.
- Cynthia Marie Glorioso, of Baltimore, Md.; B.S. Towson State College, 1976. Education.
- Barbara Ann Goedeke, of Baltimore, Md.; B.S. St. Joseph College, 1969. Education.
- Ruth Ellen Good, of Elkridge, Md.; B.S. Shippensburg State College, 1979. Education.
- Nancy Elizabeth Schueler Goodell, of Cockeysville, Md.; B.S. Milton College, 1964. Applied Behavioral Science.
- Thomas Anthony Goonan, of Abingdon, Md.; J.D. New England School of Law, 1983. Education.
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- Mary Kay Melocik, of Towson, Md.; A.A. Villa Julie College, 1978; B.S. Towson State University, 1983.
- Joseph Anthony Meringolo, of Silver Spring, Md.; B.A. State University College at New Paltz, 1977; M.L.S. Catholic University of America, 1979.

- Ronalda Janina Meson, of Arlington, Va.; B.S. University of Maryland, 1980.
- Janet Elsie Messersmith, of Cockeysville, Md.; B.S. The Johns Hopkins University, 1983.
- Donna Kay Metzger, of Baltimore, Md.; B.S. University of Maryland at Baltimore, 1980.
- Thomas Kenneth Meyer, of Bel Air, Md.; B.S. Mankato State University, 1967.
- Dominic Michael Mezzanotte, of Upper Falls, Md.; B.S.E. The Johns Hopkins University, 1974.
- Linda Cassandra Millner, of Elkridge, Md.; B.S. University of Maryland, 1980.
- Sharon Kane Molander, of Millersville, Md.; B.S. The Johns Hopkins University, 1984.
- Mark Bradford Mondry, of Elkridge, Md.; B.S. Miami University, 1983.
- Peter Davison Moore, of Columbia, Md.; B.S. Hampden Sydney College, 1977.
- Carol Clark Morgan, of Timonium, Md.; B.S. Towson State University, 1975.
- Jenny Goodman Morgan, of Baltimore, Md.; B.A. Brandeis University, 1981.
- Paul R. Moyer, of Annapolis, Md.; B.A. St. Mary's College, 1981.
- Margaret E. Mueller, of Columbia, Md.; B.A. University of Pennsylvania, 1974.
- Susan Marie Conley Murphy, of Baltimore, Md.; B.A. East Tennessee University, 1975.
- Timothy Patrick Murphy, of Baltimore, Md.; B.S. University of Maryland, 1979.
- Michael Phillip Naumann, of Cockeysville, Md.; B.S. Towson State University, 1978; M.S. The Johns Hopkins University, 1983.
- Louis Alan Naviasky, of Forest Hills, N.Y.; B.A. University of Maryland, 1982.
- Elaine M. NeJame, of Devon, Pa.; B.S. Lehigh University, 1982.
- Rita Mae Newton, of Columbia, Md.; B.S. University of Maryland, 1977.
- Brenda Lena Nossell, of Baltimore, Md.; B.S. University of Baltimore, 1981.
- Francis Joseph Nossell, of Baltimore, Md.; B.S. University of Baltimore, 1983.
- Michael John Ohorodnik, of Cockeysville, Md.; B.A. Michigan State University, 1980.
- David Olszewski, of Baltimore, Md.; B.S. Towson State University, 1980.
- Richard G. Paddy, of Towson, Md.; B.S. University of Baltimore, 1983.
- Constantine Pandelaras, of Wheaton, Md.; B.S. Strayer College, 1983.
- Gregory Lewis Parham, of Laurel, Md.; D.V.M. Ohio State University, 1980.
- Douglas Alan Parker, of Finksburg, Md.; B.S. University of Maryland, 1982.
- Carl David Parmelee, of Cockeysville, Md.; B.S. Pennsylvania State University, 1982.
- Diane Ilene Parsley, of Baltimore, Md.; B.S. The Johns Hopkins University, 1977.
- Mary Ann Pater, of Linthicum, Md.; B.A. University of Maryland, Baltimore County, 1982.
- Elizabeth Morris Peterson, of Bel Air, Md.; B.S. Towson State University, 1978.
- Barbara Jensen Piper, of Baltimore, Md.; B.S. The Johns Hopkins University, 1982.
- Bonnie L. Pitt, of Baltimore, Md.; B.S. University of Maryland, 1974.
- Daniel Lawrence Pobloskie, of Fallston, Md.; B.E. Stevens Institute of Technology, 1970.
- Ellyn R. Polsky, of Vienna, Va.; B.S. Syracuse University, 1982.
- Deborah Merrick Prout, of Baltimore, Md.; B.A. Bryn Mawr College, 1974.
- Stephen P. Push, of Laurel, Md.; B.S. City College of New York, 1978.
- Marc A. Resnick, of Millersville, Md.; B.S. University of Maryland, 1977.
- Kenneth Wilbur Rippel, of Littlestown, Pa.; B.S. The Johns Hopkins University, 1976.
- John Henry Ritz, Jr., of Bel Air, Md.; B.S. The Johns Hopkins University, 1982.
- Blanche Davis Rodgers, of Columbia, Md.; B.A. Fisk University, 1965.
- Linda Ann Ruffing Rozinak, of Baltimore, Md.; B.S. Duquesne University, 1979.
- Eric Allan Rudolph, of Baltimore, Md.; B.C.E. University of Delaware, 1982.
- Michael Francis Runge, of Fallston, Md.; B.A. University of Maryland, Baltimore County, 1972.
- Patricia McCarthy Sanders, of San Antonio, Texas; B.S. Tufts University, 1983.
- Sharon Ann Santangelo, of Baltimore, Md.; B.S.N. University of Delaware, 1983.
- Anita Paige Sass, of Columbia, Md.; B.S. The Johns Hopkins University, 1983.

- Howard Allan Savage, of Columbia, Md.; M.A. North Texas State University, 1972.
- Michael Paul Sawicki, of Sparks, Md.; B.A. Loyola College, 1983.
- Karen Elizabeth Schafke, of Baltimore, Md.; B.A. Eastern Michigan University, 1970.
- Debra Lynn Scherer, of Elkridge, Md.; B.A. Glassboro State College, 1977.
- Ginger Owens Scheurman, of Baltimore, Md.; B.A. College of Notre Dame of Maryland, 1982.
- Scott Alan Schneider, of Hunt Valley, Md.; B.S. Bloomsburg State University, 1981.
- Danny Robert Seidman, of Baltimore, Md.; B.A. University of Maryland, 1981.
- Margaret Mary Semancik, of Columbia, Md.; B.S.N. University of Akron, 1976.
- Manan Krishnakant Shah, of Columbia, Md.; B.S. University of Bombay, 1980; M.S. University of Lowell, 1982.
- Steven Allen Shefter, of Baltimore, Md.; B.A. Rutgers University, 1980.
- Keith Thomas Shelly, of Cockeysville, Md.; B.S. Towson State University, 1983.
- Stuart Mark Singer, of Sparks, Md.; B.F.A. Maryland Institute of Fine Arts, 1971.
- Rajiv Singh, of Columbia, Md.; M.S. Southern Illinois University, 1981.
- Bruce L. Smith, of Baltimore, Md.; B.A. The Johns Hopkins University, 1980.
- Eileen C. Smith, of Columbia, Md.; B.S.N. University of Maryland, 1982.
- Glen Jon Smith, of Colesville, Md.; M.S. University of Maryland, 1979.
- Daniel T. Somerville, of Baltimore, Md.; B.A. Guilford College, 1977.
- Daniel R. Southworth, of Baltimore, Md.; B.S. Towson State University, 1976.
- Stephen John Spano, of Ft. Meade, Md.; B.S. Norwich University, 1983.
- Stephen G. Staikos, of Silver Spring, Md.; B.S. Arizona State University, 1977.
- Dana Lee Stalder, of Edgewood, Md.; A.A. Harford Community College, 1983; B.A. Towson State University, 1984.
- John Francis Stohman, Jr., of Mt. Airy, Md.; B.S. Towson State University, 1979.
- John M. Stone, of Catonsville, Md.; B.A. University of Missouri, 1966; M.A., 1968.
- Regina Margaret Strauch, of Baltimore, Md.; B.S. University of Maryland, 1980.
- Gary F. Suggars, of Baltimore, Md.; B.A. Westminster College, 1969.
- Andrew C. Taylor, of Silver Spring, Md.; B.S. University of Maryland, 1981.
- Marianne L. Thomas, of Dundalk, Md.; B.A. Smith College, 1977.
- Kathleen Marie Thompson, of Baltimore, Md.; A.S. Essex Community College, 1975; B.S. University of Maryland, 1983.
- Doris Ann Torain, of Baltimore, Md.; B.S. Old Dominion University, 1965; M.A. Wake Forest University, 1968.
- Miriam Torres-Souffront, of Ellicott City, Md.; B.S.I.E. Bradley University, 1982.
- Barrett R. Tuck, of Baltimore, Md.; B.A. Rutgers University, 1980.
- Brian Lee Twardy, of Baltimore, Md.; B.A. University of Maryland, Baltimore County, 1979.
- John Edward Van Hamont, of Columbia, Md.; M.S. Long Island University, 1977; Ph.D. Cornell University, 1981.
- Frank Lewis Vanni III, of Baltimore, Md.; B.A. University of California, 1975.
- Michael Joseph Volpe, of Forest Hill, Md.; B.A. Loyola College, 1978.
- Bernadette Dorothea Wallace, of Baltimore, Md.; B.S. George Washington University, 1980.
- Michael Robert Wangemann, of Baltimore, Md.; B.S. University of Baltimore, 1979.
- Andrea S. Washko, of Columbia, Md.; B.A. King's College, 1980.
- Debra C. Watkins, of Baltimore, Md.; B.S. Towson State University, 1974.
- Lyn Marie Watner, of Baltimore, Md.; B.A. Drew University, 1972.
- Gabriele Weida, of Ellicott City, Md.; B.A. Muhlenberg College, 1971.
- Jeffrey Lee Weidley, of Glen Burnie, Md.; B.A. Pennsylvania State University, 1976.
- Andrea Mendes Weiss, of Laurel, Md.; B.A. Virginia Community College, 1976.
- Patricia J. West, of Baltimore, Md.; B.S. Towson State University, 1975.
- Lynne Maria White, of Lutherville, Md.; B.A. Towson State University, 1979.
- Corine Celaine Williams, of Baltimore, Md.; B.A. University of California at Los Angeles, 1982.

Howard E. Woolley, of Columbia, Md.; B.S. Syracuse University, 1980.

Charles Randall Young, of Baltimore, Md.; B.A. University of Maryland, 1973.

Patricia Lee Young, of Lutherville, Md.; B.S. Towson State University, 1982.

David R. Zastrow, of Columbia, Md.; B.S. University of Nebraska, 1973.

Grant W. Zeigenfuss, of Annapolis, Md.; B.S. The Johns Hopkins University, 1971.

## CERTIFICATES OF ADVANCED STUDY

### in The School of Continuing Studies

S. Louise Bettermann, of York, Pa.; M.Ed. Millersville State College, 1981.

Harold Paul Blaisdell, of Towson, Md.; M.Ed. Springfield College, 1961.

Maria S. Burgan, of Baltimore, Md.; M.S. Morgan State University, 1969.

Carol Severn Christmyer, of Parkton, Md.; B.S. The Johns Hopkins University, 1973.

Evelyn M. Dailey, of Baltimore, Md.; M.Ed. Towson State University, 1979.

Edward W. Dieffenbach, of Towson, Md.; Ph.D. Southern Illinois University, 1977.

James Gough Edelen, Jr., of Baltimore, Md.; B.A. Loyola College, 1977; M.A. St. Mary's Seminary and University, 1981.

Dorothy E. Fletcher, of Silver Spring, Md.; B.S. University of Maryland, 1983.

David A. Goldenson, of Potomac, Md.; Ph.D. Catholic University of America, 1980.

Eunice Rogers Herring, of Baltimore, Md.; M.Ed. Towson State University, 1975.

Barbara Selis Horton, of Lutherville, Md.; B.S. The Johns Hopkins University, 1967.

Donna Lou Jacobs, of Baltimore, Md.; M.Ed. Towson State University, 1977.

Deborah Marie Johnson, of Baltimore, Md.; Bowie State College, 1980.

James R. Johnson, Sr., of Baltimore, Md.; B.S. University of Maryland, 1972; M.A.S. The Johns Hopkins University, 1982.

Theresa Joyce Jordan, of Fallston, Md.; B.S.N. University of Maryland, 1966; M.S., 1969.

Theresa Kessler, of Baltimore, Md.; M.S. University of Dayton, 1971.

Anthony Joseph Maskell, of Baltimore, Md.; B.A. St. Mary's Seminary and University; M.A. Towson State University, 1971.

Edith Daryl Picken, of Baltimore, Md.; B.S. Towson State University, 1978; M.S. The Johns Hopkins University, 1985.

Kathleen Margaret Sikorski, of Williamsburg, Va.; B.S. University of Tennessee, 1979; M.Ed. College of William and Mary, 1981.

Edward Robert Walker, of Baltimore, Md.; M.P.A. University of Baltimore, 1978.

Mary Jane Westheimer Weinberg, of Baltimore, Md.; B.S. The Johns Hopkins University, 1974.

Mary Elizabeth Kindler Yelen, of Ellicott City, Md.; B.A. College of Notre Dame of Maryland, 1972; M.Ed. Loyola College, 1974.

## PROFESSIONAL STUDIES CERTIFICATES

### in The Peabody Conservatory of Music

Judith Ann Bauer Linder, of Omaha, Neb.; B.M.E. Westmat College, 1976; M.M. University of Nebraska at Lincoln, 1980. Voice.

Michael Hauber, of Filderstadt, Federal Republic of Germany; geprüfter Musiklehrer, Musikhochschule Stuttgart, 1984. Piano.

# MASTERS OF MUSIC

in The Peabody Conservatory of Music

- Ronda Lea Ahearn, of Seattle, Wash.; B.F.A. Cornish Institute, 1984. Voice.
- James L. Allison, of Sidman, Penna.; B.M. Duquesne University, 1984. Piano.
- Kathleen Lynn Andrew, of Los Alamos, N.M.; B.M. University of New Mexico, 1983. Violin.
- Timothy Lee Bandy, of Toccoa, Ga.; B.M. Wheaton College, 1982. Composition.
- Barteld Douwe Bosma, of Arnhem, The Netherlands; akte B. Stedelijk Conservatorium Arnhem, 1984. Guitar.
- Peter F. Bouchard, of St. Albans, Vt.; B.S. University of Vermont, 1984. Trombone.
- Alan Chantker, of Baltimore, Md.; B.S. University of Maryland, 1975; B.M. Peabody Conservatory of Music, 1981. Composition.
- Moli Chiang, of Buenos Aires, Argentina; B.M. National Conservatory of Music of Buenos Aires, 1982. Piano.
- Mark Kennerly Clinton, of Bowie, Md.; B.M. Peabody Conservatory of Music, 1984. Piano.
- David Allen Cover, of Myerstown, Penna.; B.A. Bucknell University, 1984. Piano.
- Marcia Lorraine Englar, of York, Penna.; B.M., B.M.E. Augustana College, 1976. Guitar.
- Cathy Leona Ferguson, of Fort Collins, Colo.; B.M. Colorado State University, 1982; M.M. Peabody Conservatory of Music, 1985. Conducting.
- Susan Elisabeth Avery Gray, of Baltimore, Md.; B.A. Mary Washington College, 1980. Harp.
- Kenneth Byron Hanks, of St. Petersburg Beach, Fla.; B.M. University of Florida, 1984. Piano.
- Gregory Bernard Hudak, of Northampton, Penna.; B.M. The Catholic University of America, 1971. Composition.
- Jeffrey Sheldon Hudson, of Siler City, N.C.; B.M. University of North Carolina—Chapel Hill, 1983. Piano.
- Richard James Italiano, of Denver, Colo.; B.M. University of Northern Colorado, 1982. Piano.
- Paul Leonard Johnson, of Stoughton, Wisc.; B.M. St. Olaf College, 1980. Double Bass.
- James Andrew John Katchko, of Swoyersville, Penna.; B.A. King's College, 1980; B.M. Peabody Conservatory of Music, 1983. Voice.
- Mark Louise Kausch, of Madison, Wisc.; B.A. St. Olaf College, 1984. Double Bass.
- Bok Hwa Kim, of Memphis, Tenn.; B.M. Peabody Conservatory of Music, 1982; M.M. The Juilliard School, 1985. Piano.
- Haerie Lee, of Seoul, Korea; B.A. Hanyang University, 1983. Piano.
- Mark Markham, of Pensacola, Fla.; B.M. Peabody Conservatory of Music, 1984. Piano.
- Thomas Albert Morgan, of University City, Mo.; B.M. Manhattan School of Music, 1984. Viola.
- Cecilia Oh, of Columbia, Md.; B.M. Ewha Womans University, 1966; M.M., 1970. Music Education.
- Rūta Marija Pakstas, of Chicago, Ill.; B.M. DePaul University, 1984. Voice.
- Jonathan Palevsky, of West Mount, Quebec, Canada; B.M. Carleton University, 1983. Guitar.
- Jan Louise Peterson, of Clearbrook, Minn.; B.A. Bemidji State University, 1983. Voice.
- David W. E. Rogers, of London, England; F.T.C.L. Trinity College of Music, 1976; G.B.S.M. Birmingham School of Music, 1977. Guitar.
- Gisèle Lynne Rouleau, of Edmonton, Alberta, Canada; B.M. University of Alberta, 1984. Piano.
- Jon Saboe, of Bonners Ferry, Idaho; B.M. Peabody Conservatory of Music, 1985. Piano.
- Dominic Sargent, of Boston, Mass.; B.A. Cambridge University, 1984. Conducting.
- David Shumway, of Lawrence, Kans.; B.M. Kansas University, 1983. Violoncello.
- J. Mark Stambaugh, of Lancaster, Penna.; B.M. Boston Conservatory of Music, 1980. Composition.
- Sun Chiao-Ling, of Taipei, Taiwan; B.M. Peabody Conservatory of Music, 1985. Violin.
- Annie Harumi Takeuchi, of San Francisco, Calif.; B.A. Yale University, 1984. Piano.
- Norman Curtis Thibodeau, of Albany, N.Y.; B.A. State University of New York at Albany, 1981. Flute.
- Antoinette Louise Toppin, of Ettrick, Va.; B.M. University of North Carolina, 1983; M.M. Peabody Conservatory of Music, 1985. Voice.
- Rosemary Joy Tuck, of Woodhouselee, New South Wales, Australia; B.A. Canberra School of Music, 1982. Piano.



## ARTISTS DIPLOMAS

in The Peabody Conservatory of Music

Sandra Shapiro, of Baltimore, Md. Piano.

## MASTERS OF SCIENCE

in The School of Hygiene and Public Health

- Hubert Abraham Allen, Jr., of Glencoe, Ill.; Sc.B. Brown University, 1980. Biostatistics.  
*Methods of Band Survival Analysis: Applied to Studies of the Tundra Swan (Cygnus columbianus columbianus).*
- Purwastyastuti Ascobat, of Jakarta, Indonesia; M.D. University of Indonesia, 1975. Population Dynamics.  
*Changes in Sperm Quantity, Sperm Motility and Sperm Morphology in Rats Treated with Testosterone and Testosterone-Estradiol: Its Correlation with Fertility.*
- Greta S. Brand, of Baltimore, Md.; B.A. University of Maryland, Baltimore County, 1979. Behavioral Sciences and Health Education.  
*Patient's General Life Satisfaction and Its Relation to the Patient-Physician Interaction.*
- James E. Drummond, of Phoenix, Md.; B.S. St. Mary's College, 1982. Immunology and Infectious Diseases.  
*Immunity to BK Papovavirus in Normal Individuals and Allogeneic Bone Marrow Transplant Recipients.*
- Amy Lynne Foehner, of Silver Spring, Md.; B.A. Drew University, 1983. Population Dynamics.  
*Formation and Function of the Pronucleus Following Fertilization of the Hamster, In Vivo and In Vitro.*
- Elizabeth Ann Grossman, of White Plains, N.Y.; B.A. The Johns Hopkins University, 1980. Biostatistics.  
*Methods for the Analysis of Interval Censored Data with an Application to PCB Levels in Adipose Tissue of Transformer Repair Workers.*
- Jessica Halprin, of Chicago, Ill.; B.A. Swarthmore College, 1982. Immunology and Infectious Diseases.  
*Serological Analysis of Epstein-Barr Virus Infections Using a Bacterially Synthesized Early Antigen (EA)*
- Lisa Paula Jacobson, of New York, N.Y.; B.A. The Johns Hopkins University, 1982. Epidemiology.  
*Case-Control Studies: As Reviewed Through Published Literature.*
- Mohammad Rezaul Karim, of Dhaka, Bangladesh; B.Sc. Dhaka University, 1979; M.Sc., 1981. Population Dynamics.  
*Differences in Village Level Fertility and Mortality Rates in Rural Bangladesh.*
- Deanna Maureen Kruszon-Moran, of Riverhead, N.Y.; B.A. Elmira College, 1982. Biostatistics.  
*Oral Contraceptive Use, Alcohol Consumption and Plasma Lipid and Lipoprotein Levels.*
- Sarah Anne Lowell, of Westfield, N.J.; B.S. Cook College, 1982. Biostatistics.  
*Odds Ratio Regression for Serial Data.*
- Helen I. Meissner, of Columbia, Md.; B.S. Lebanon Valley College, 1979. Behavioral Sciences and Health Education.  
*Self-Care Behaviors in Diabetes.*
- Billie Michele Melia, of Pittsburgh, Pa.; B.S. University of Pittsburgh, 1983. Biostatistics.  
*A Comparison of Four Models for Change in Visual Acuity Over Time.*
- Sonia Muchnick, of Madison, Wis.; B.A. Grinnell College, 1970; M.A. University of Wisconsin, 1978. Behavioral Sciences and Health Education.  
*Confidence-Power Drinking in a Sample of Baltimore Women Drinkers.*
- Dana Sue Pollack, of North Woodmere, N.Y.; B.A. University of Pennsylvania, 1983. Behavioral Sciences and Health Education.  
*The Value of Using Incentives in a Smoking Cessation Program.*
- Timothy Richard Rebbeck, of Rapid City, S. Dak.; B.A. Northwestern University, 1984. Epidemiology.  
*The Monoclonal Gammopathies: Characterization and Clinical Associations in a Hospital Population.*
- Victor H. Sierra, of Quito, Ecuador; B.S. American University, 1982. Epidemiology.  
*Bacteremia in a General Hospital.*

Beryl Silkey, of Toronto, Canada; B.A. State University of New York at Stony Brook, 1971. Population Dynamics.  
*Pelvic Inflammatory Disease and Contraceptive Use: A Multinational Case-Control Study.*

Robin William Switzer, of Ames, Iowa; B.S. Iowa State University, 1982. Behavioral Sciences and Health Education.

*Applied Behavioral Analysis of Facewashing as a Factor in Trachoma: A Methodological Exploration.*

## MASTERS OF HEALTH SCIENCE

### in The School of Hygiene and Public Health

Jane Wilder Andrews, of Baltimore, Md.; B.A. Goucher College, 1979; M.A. Middlebury College, 1980. Health Policy and Management, Health Finance and Management.

Linda Bailey, of Baltimore, Md.; B.S. Tufts University, 1980. Epidemiology.

Timothy John Buckley, of Detroit Lakes, Minn.; B.S. St. John's University, 1981. Environmental Health Sciences, Occupational Safety and Health.

Earl James Campazzi, II, of Edinboro, Pa.; B.A. The Johns Hopkins University, 1984. Immunology and Infectious Diseases.

Ann Marie Cappabianca, of Bethesda, Md.; B.A. University of Virginia, 1983. Environmental Health Sciences, Occupational Safety and Health.

Audrey Wen San Cheang, of Toronto, Canada; B.A. University of Rochester, 1977; M.A. University of Maryland, 1980. Health Policy and Management, Health Finance and Management.

Mary Elizabeth Cieslicki, of Carlisle, Pa.; B.A. Macalester College, 1979. Health Policy and Management, Health Finance and Management.

Richard L. Coshnear, of Baltimore, Md.; B.A. Vassar College, 1978; M.A. McGill University, 1983. International Health.

Guede Dadou, of Soubre, Ivory Coast; Sc.M. University of Abidjan, 1981. Immunology and Infectious Diseases.

Valerie Antoinette Darden, of St. Louis, Mo.; B.S. University of Southern California, 1985. Maternal and Child Health.

Paula Beth Davis, of Newark, Del.; B.A. University of Delaware, 1984. Health Policy and Management, Health Finance and Management.

SherrieLynn Catherine Dixon, of Washington, D.C.; B.A. The Johns Hopkins University, 1984. Health Policy and Management, Health Finance and Management.

Julie Anne Druker, of Newton Centre, Mass.; B.S. University of Massachusetts-Amherst, 1982. Health Policy and Management, Health Finance and Management.

Lauren Dundes, of Miami, Fla.; B.A. Stanford University, 1984. Maternal and Child Health.

Lyle Richard Edinger, of Ann Arbor, Mich.; B.S. University of Michigan, 1980. Environmental Health Sciences, Occupational Safety and Health.

Fanchon Fae Finucane, of Minneapolis, Minn.; B.A. University of Minnesota, 1982. Epidemiology.

Kathleen Fox, of Baltimore, Md.; B.A. College of Notre Dame, 1981. Epidemiology.

Elizabeth Rebecca Helgeson, of Green Bay, Wis.; B.A. Ripon College, 1982. Epidemiology, Human Genetics.

Melanie Ann Holcomb, of Timonium, Md.; B.A. Connecticut College, 1983. Health Policy and Management, Health Finance and Management.

Margarita Patricia Hurtado, of Cali, Colombia; B.A. Albion College, 1982. International Health.

Abdulnasser Khalifeh, of Damascus, Syria; B.Sc. Damascus University, 1980. Environmental Health Sciences, Radiation Health Sciences.

Monica Slusher Kinoshian, of Baltimore, Md.; B.A. University of California at Berkeley, 1977. Health Policy and Management, Health Finance and Management.

Alice Elizabeth Koegel, of Chevy Chase, Md.; B.S. Muhlenberg College, 1983. Environmental Health Sciences, Occupational Safety and Health.

Dagoberto Helio Lorenzetti, of Sao Paulo, Brazil. Environmental Health Sciences, Occupational Safety and Health.

Barbara Suzanne Lyons, of Baltimore, Md.; B.S. University of Maryland, 1980; B.A., 1981. Health Policy and Management, Health Finance and Management.

Margaret Ann Veronica Maeder, of Ithaca, N.Y.; B.S. Cornell University, 1982. Epidemiology, Human Genetics.

Barbara Carla McKeown, of New York, N.Y.; B.A. University of Maryland, 1979; M.P.A. George Washington University, 1982. Health Policy and Management, Health Finance and Management.

Deborah Lee McLellan, of New Vernon, N.J.; B.A. Franklin and Marshall College, 1980. Population Dynamics.

- Robin Hardy Miller, of Chicago, Ill.; B.S. University of Michigan, 1974; M.D. University of Illinois, 1979. Epidemiology.
- Marisa Mirjafari, of Baltimore, Md.; B.A. College of Notre Dame of Maryland, 1980. Population Dynamics.
- Robert F. Mouradian, of Brewer, Maine; B.S. University of Maine, 1979; M.A. University of California, 1983. Environmental Health Sciences, Occupational Safety and Health.
- Michael James O'Neill, of Baltimore, Md.; B.A. Western Maryland College, 1980. Environmental Health Sciences, Radiation Health.
- Moiara de Moraes Ruehsen, of Baltimore, Md.; B.A. The Johns Hopkins University, 1985. International Health.
- Allen Russell Schaeffer, of Westminster, Md.; B.S. University of Maryland, 1983. Environmental Health Sciences, Occupational Safety and Health.
- Pamela Jane Simerly, of Lake Wales, Fla.; B.A. George Mason University, 1983. Health Policy and Management, Health Finance and Management.
- Andrew A. Vernon, of Atlanta, Ga.; B.A. Harvard College, 1971; M.D. Harvard Medical School, 1975. Epidemiology.
- Susan Elaine Vitale, of Lancaster, Pa.; B.A. Millersville University, 1979. Biostatistics.
- Victor Gerald Vogel, III, of Baltimore, Md.; B.A. The Johns Hopkins University, 1974; M.D. Temple University, 1978. Epidemiology.
- Michal Ann Warshow, of New York, N.Y.; B.A. The Johns Hopkins University, 1982. Epidemiology.
- James Douglas Werner, of Newark, Del.; B.A. University of Delaware, 1980. Environmental Health Sciences.

## MASTERS OF PUBLIC HEALTH

### in The School of Hygiene and Public Health

- Sabah Ali Al-Attar, of Baghdad, Iraq; M.B.Ch.B. University of Baghdad, 1977.
- Bassam Al-Hakeem, of Damascus, Syria; M.D. University of Damascus, 1977.
- Arsalan Al-Khouleidy, of Taiz, Yar; M.D. Addis Ababa University, 1979.
- Homeed Hamid Al-Salmi, of Abha, Saudi Arabia; M.B.Ch.B. King Abdulaziz University, 1983.
- Olga Amat Y Leon, of Lima, Peru; M.D. Angloamerican Clinic San Marcos University, 1973.
- Lulu Amornmarn, of Bangkok, Thailand; B.Sc. Mahidol University, 1980; M.D., 1982.
- Mary Alice Buck Anderson, of Jacksonville, Fla.; B.S. University of Massachusetts, 1968; M.S. University of Nevada, 1974; M.D. University of Alabama, 1979.
- Sujono Angkasa, of Indonesia; D.D.S. University of Professor Doctor Moestopo, 1976.
- Poerwokoesomo Arbani, of Jakarta, Indonesia; M.D. Gajah Mada University, 1968.
- Linda N. Arias, of New Rochelle, N.Y.; B.A. Mount Holyoke College, 1979.
- Lee Ian Ascherman, of Cleveland, Ohio.; B.A. Case Western Reserve University, 1977; M.D., 1982.
- Peter Geoffrey Barss, of Wolfville, Nova Scotia, Canada; B.Sc. Acadia University, 1967; M.D. University of Chicago, 1971.
- Sergio Luiz Bassanesi, of Porto Alegre, Brazil; M.D. Universidade Federal Do Rio Grande Do Sul, 1974.
- Abdulnaser Ali Batouk, of Abha, Saudi Arabia; M.B. King Abdulaziz University, 1983.
- Nasreen Nasim Battla, of Vestal, N.Y.; M.B.B.S. Sind Medical College, 1981.
- Okwo Bele, of Kinshasa, Zaire; M.D. University of Kinshasa, 1981.
- Waldmir Belinati, of Brasilia, Brazil; M.D. Medicina Universidade Estadual De Londrina, 1974.
- Susan Berry, of Glen Ridge, N.J.; B.A. Rutgers University, 1977. M.D. New Jersey College of Medicine, 1981.
- Sudershan K. Bhatia, of New Delhi, India; M.B.B.S. Allamabad University, 1978.
- Catherine M. Bonk, of Pittsburgh, Pa.; B.S. The Johns Hopkins University, 1979.
- Robert Emmett Bonner, of Cheltenham, Pa.; B.A. LaSalle University, 1972; M.D. Jefferson College, 1976.
- Allan Jay Brimmer, of Bethesda, Md.; B.A. University of Chicago, 1970; M.D. University of Illinois, 1976.
- Bruce Peter Brown, of Montreal, Quebec, Canada; B.Sc. McGill University, 1969; M.D., 1973.
- Danielle Candau, of Paris, France; M.D. Bordeaux, 1976.



- Chin-Yung Paul Chang, of Changhua, Taiwan; B.M. Taipei Medical College, 1981.
- Chung-Sun Chao, of Tainan, Taiwan; M.D. National Taiwan University, 1976.
- Anne Chiapella, of Menlo Park, Calif.; B.A. Stanford University, 1964; Ph.D. 1983; M.S., 1984.
- Joanna Chusid, of Wantagh, N.Y.; B.A. University of Pennsylvania, 1970; J.D. Suffolk University, 1975.
- Nancy Codori, of Upper Marlboro, Md.; B.A. University of Maryland, 1980.
- Noah Dan Cohen, of Wallingford, Pa.; B.A. University of Pennsylvania, 1979; V.M.D., 1983.
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- Kurt Justin Klingenberg, of Tarpon Springs, Fla.; B.S. U.S. Air Force Academy, 1976; M.S. University of Southern California, 1983.
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- Edward Wilkes Walker, of Washington, D.C.; B.A. Harvard University, 1977.
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- William Travis Warlick, of Sugarland, Texas; B.A. University of Virginia, 1983.
- Karsten Warnecke, of Berlin, Germany; B.A. Freie Universität Berlin, 1984.
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- Katherine A. Weisman, of New York, N.Y.; B.A. The Johns Hopkins University, 1985.
- William Oscar Wendlandt II, of Garden City, Minn.; B.A. Carleton College, 1982.
- Daniel Todd Westrick, of San Diego, Calif.; B.A. University of California at Berkeley, 1980.
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- Kevin Woodfield, of Rugby, England; B.A. Nottingham University, 1979.
- Jennifer Anne Woods, of Melrose, Mass.; B.A. University of Manitoba, 1984.
- Natalie Carroll Ziegler, of Free Union, Va.; B.A. Oberlin College, 1977.

## MASTERS OF ARTS in The School of Medicine

Thomas J. Handler, of Woodbridge, Conn.; B.S. Yale University, 1982. History of Medicine.

*Creation of an Organized Uniform Ambulance Service for the Armies of the United States During the Civil War: The Events Contributing to the Passage of the Ambulance Corps Act of 1864.*

Sarita H. Hleap, of Atlanta, Ga.; B.F.A. University of Georgia, 1981. Medical and Biological Illustration.

*An Illustrated Prosector's Manual for Autopsy Procedures.*

Diane T. Hodgkins, of Las Vegas, Nev.; B.S. Northern Arizona University, 1981. Medical and Biological Illustration.

*An Atlas of the Forearm Anatomy of the Giant Flying Squirrel, *ptaurista grandis*.*

Robert Mark Kaiser, of Baltimore, Md.; B.A. Duke University, 1978. History of Medicine.

*Thinking About High Blood Pressure: Theodore C. Janeway and the Clinical Investigation of Hypertension.*

Joel Thorp Katz, of Glencoe, Ill.; B.A. Earlham College, 1981. Medical and Biological Illustration.

*The Mechanisms of Extraocular Muscle Injury in Orbital Floor Fractures.*

Timothy A. Vojt, of Baltimore, Md.; B.A. University of Denver, 1984. Medical and Biological Illustration.

*A Table of Normal Development of the Poison Arrow Frog, *Dendrobates auratus*, with an Examination of Developmental Abnormalities.*

Mark Mitchell Miller, of Raytown, Mo.; B.F.A. University of Missouri-Columbia, 1982. Medical and Biological Illustration.

*Thyroid Patient Simulator, an Instructional Model for the Palpation of the Normal and Abnormal Thyroid Gland.*

Corinne Sandone, of Sandy Hook, Conn.; B.A. Oerblin College, 1982. Medical and Biological Illustration.

*Bay Life and Habitats Flash Cards, Marine Biology of the Chesapeake Bay in Maryland.*

Lorraine D. Sneed, of Campbell, Calif.; B.A. University of California (Davis), 1984. Medical and Biological Illustration.

*Temporal Bone Ultrastructures: Optimal Planes of Visualization by Computed Tomography.*

Claudette Marie Snow, of Baltimore, Md.; B.A. Mount Holyoke College, 1982. Biochemistry, Cellular and Molecular Biology Program—Biological Chemistry.

*Isolation of a Family of Monoclonal Antibodies which Recognize a set of Immunologically Related Polypeptides of the Nuclear Pore Complex and Characterization of the Antigens.*

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- Stephen Kuo-Liang Wang, of Columbia, Md.; B.S.M.E. National Taiwan University, 1976; M.S.M.E. University of Wisconsin, 1982. Electrical Engineering.
- Patricia Morris Webb, of Gambrills, Md.; B.S. University of Maryland, 1975; M.S. Troy State University, 1977; M.S. The Johns Hopkins University, 1981. Computer Science.
- Robert Paul Weisser, of Baltimore, Md.; M.M. The Johns Hopkins University, 1973. Computer Science.
- Randall Michael Wesolowski, of Millersville, Md.; B.A. University of Maryland, Baltimore County, 1976. Computer Science.
- Gregory L. Wessel, of Millersville, Md.; B.S. University of Maryland, 1982. Computer Science.
- Mark William Westerdale, of Glen Burnie, Md.; B.S.E. University of Missouri, 1976. Computer Science.
- Edward Mark Westling, of Chester, Md.; B.S. University of Florida, 1978. Electrical Engineering.
- Gregg J. White, of Columbia, Md.; B.S. University of Pennsylvania, 1980. Computer Science.
- Melvin Joseph White II, of Gaithersburg, Md.; B.S.E.E. Lafayette College, 1974. Computer Science.
- Richard Sewall White, of Severna Park, Md.; A.A. Capitol Institute of Technology, 1980; B.S., 1982. Electrical Engineering.
- Arthur William Wilson, of Columbia, Md.; B.S. Drexel University, 1983. Computer Science.
- Robert Jeffrey White, of Jarrettsville, Md.; B.S.E.E. Ohio University, 1971. Computer Science.
- Ralph Alan Whitehurst, of Ft. Meade, Md.; A.A. Mesa Community College, 1980; B.S. Brigham Young University, 1983. Computer Science.
- Frank Holbrook Whitney, of Laurel, Md.; B.A. University of Maryland, 1972. Computer Science.
- Robert Whyns III, of Ellicott City, Md.; B.S.E.E. University of Florida, 1981. Electrical Engineering.
- Hans Peter Widmer, of Germantown, Md.; B.Engr. Concordia University, 1978. Technical Management.
- Leonard J. Williams, of Columbia, Md.; B.S.E. University of Pennsylvania, 1980. Computer Science.
- Carolyn Ann Williams, of Baltimore, Md. Computer Science.
- Stephen Ray Williamson, of Catonsville, Md.; B.S.E. University of Akron, 1982. Electrical Engineering.
- Diana Kathryn Wittenbreder, of Havre de Grace, Md.; B.S. Millersville University, 1970. Computer Science.
- Ernest Henry Wittenbreder, of Havre de Grace, Md.; B.A. Franklin Marshall College, 1970; M.S. Lehigh University, 1972. Electrical Engineering.
- John Wojtowicz, of Eldersburg, Md.; B.S.E.E. Virginia Polytechnic Institute and State University, 1981. Electrical Engineering.
- Steven P. Wong, of Silver Spring, Md.; B.A. University of California at Los Angeles, 1979. Numerical Science.
- Daniel Nicholas Yannuzzi, of Columbia, Md.; B.E.E. University of Delaware, 1982. Electrical Engineering.
- Hsi Ping Yen, of Rockville, Md.; B.S. National Chung-Hsing University, 1971; M.S. University of Maryland, 1979. Computer Science.
- Robert Charles Yienger, of Baltimore, Md.; B.S.E. University of Maryland, 1981. Electrical Engineering.
- Joann Marie Yokel, of Gaithersburg, Md.; B.S. Carnegie-Mellon University, 1982. Computer Science.
- Catherine Rae Zakary, of Laurel, Md.; B.S. Virginia Polytechnic Institute and State University, 1983. Numerical Science.
- Joseph Gary Zebrook, of Glen Burnie, Md.; B.S. University of Delaware, 1971, 1982. Computer Science.
- Mark Zehnwrith, of Baltimore, Md.; B.T.L. Ner Israel Rabbinical College, 1982. Computer Science.



# MASTERS OF SCIENCE IN ENGINEERING

## in The G.W.C. Whiting School of Engineering

- Joanne Sue Barker, of Milwaukee, Wis.; B.S. Northwestern University, 1984. Geography and Environmental Engineering.
- Jeffrey Becker, of El Cerrito, Calif.; B.S. University of California at Berkeley, 1982. Biomedical Engineering.  
*A Study of the Kinematics of the Human Hand with Applications to Robot Hand Design.*
- Douglas Miller Blough, of Schenectady, N.Y.; B.S. The Johns Hopkins University, 1984. Electrical Engineering and Computer Science.
- Kathleen Ruth Breen, of Baltimore, Md.; B.S. University of Rochester, 1976.  
*Analysis of Ultrasonic Alteration of Aluminum Single Crystal by Electron Channeling Techniques.*
- Susan Phippen Bauxbaum, of Hull, Mass. Chemical Engineering.  
*Thermal Diffusion Cloud Chamber Studies of Unimolecular Decomposition Reactions.*
- Christopher Calingaert, of Chapel Hill, N.C. Electrical Engineering and Computer Science.
- Joseph E. Cannon, of Philadelphia, Pa.; B.S. LaSalle College, 1972. Electrical Engineering and Computer Science.
- Kenneth Stanley Cantwell, of Clermont, Fla.; A.A. Lake Sumter Community College, 1977; B.S. Furham University, 1981. Mathematical Sciences.
- Howard Chen, of Baltimore, Md. Mechanical Engineering.  
*Thermo-plastic Instability in Antiplane Shear Deformation.*
- Risana Tasnim Chowdhury, of Kushtia, Bangladesh; B.A. Scripps College, 1984. Mathematical Sciences.
- Gordon Dickinson Cobb, of Fairfax, Va.; B.S. Carnegie-Mellon University, 1983. Geography and Environmental Engineering.
- Ruth Hecht Colombo, of Baltimore, Md.; B.A. The Johns Hopkins University, 1979. Mathematical Sciences.
- John Broddus Deaton, Jr., of Richmond, Va.; B.E.S. The Johns Hopkins University, 1983. Materials Science and Engineering.  
*Remote Optical Measurement of Angular Displacement: A Novel Fracture Mechanics Application.*
- Nishan DerSimonian, of Beirut, Lebanon; B.A. Brandeis University, 1984. Mathematical Sciences.
- Fazl Ehsan, of Dhaka, Bangladesh. Civil Engineering.
- Gregory Allan Fabella, of Baltimore, Md.; B.S. The Johns Hopkins University, 1985. Electrical Engineering and Computer Science.  
*Sets of Points Without Empty Convex Hexagons.*
- Jeffrey Alan Goldman, of Baltimore, Md.; B.E.S. The Johns Hopkins University, 1982. Materials Science and Engineering.  
*Investigations of Property/Microstructure Relationships in Thick Film Resistor Materials.*
- Martin Robert Hall, of Carmel, Ind.; B.E.S. The Johns Hopkins University, 1984. Electrical Engineering and Computer Science.
- Zia Ul Haq, of Dacca, Bangladesh; B.S. Northwestern University, 1982. Chemical Engineering.  
*Superheat Limits of Non-Ideal Liquid Mixtures and Thermally Induced Nucleation of Benzocyclobutenol.*
- Joanne Frances Houlahan, of Blue Bell, Pa.; B.S. Chestnut Hill College, 1984. Electrical Engineering and Computer Science.
- Randolph Joseph Hugenroth, of Pensacola, Fla.; B.S. United States Naval Academy, 1985. Electrical Engineering and Computer Science.
- Morris Schnapp Israel, of Potomac, Md.; B.S. The Johns Hopkins University, 1984. Civil Engineering.  
*Probabilistic Basis of Partial Resistance Factors for Use in Concrete Design.*
- Vasanth Arunasalam Kandasamy, of Jaffna, Sri Lanka; B.Sc. Engineering of Peradeniya, Sri Lanka, 1982. Civil Engineering.  
*Aspects of the Natural Wind Conditions at the Golden Gate Bridge.*
- Robert Gary Kelly, of Philadelphia, Pa.; B.E.S. The Johns Hopkins University, 1984. Materials Science and Engineering.  
*The Determination of the Rate Limiting Mechanism in Lithium/Iodine (P2VP) Batteries.*
- Dmitry Krass, of Novosibirsk, U.S.S.R. Mathematical Sciences.
- Peter Kroll, of Passaic, N.J.; B.A. The Johns Hopkins University, 1976. Geography and Environmental Engineering.
- Carl John Mahle, Jr., of Baltimore, Md.; B.S. University of Maryland, 1974. Electrical Engineering and Computer Science.  
*A Simulation and Measurement Approach to Distributed System Modeling.*

Hans Ulrich Mair, of Baltimore, Md.; B.S. Loyola College, 1982. Mechanical Engineering.

*Thermal Fields in Dynamic Mode III Fracture.*

Roy Christopher Mathias, of Calcutta, India; B.A. Corpus Christi College at Cambridge England, 1984. Mathematical Sciences.

Karen Winnifred McGhee, of Oxford, N.C.; B.S. University of Notre Dame, 1984. Electrical Engineering and Computer Science.

Jennifer Mary O'Connor, of Croton-on-Hudson, N.Y.; B.S. The Johns Hopkins University, 1984. Civil Engineering.  
*Reliability Measures for Simple Nonlinear Structures Subjected to Seismic Loading.*

Stephen Gordon Pimentel, of Knoxville, Tenn. Electrical Engineering and Computer Science.

Timothy Premack, of Columbia, Md.; B.S.E. University of Pennsylvania, 1980. Mechanical Engineering.  
*A Rule Based Computed Aided Design System.*

Robert James Quinton, of Jamaica, West Indies; B.S. United States Naval Academy, 1985. Electrical Engineering and Computer Science.

Ben P. Yuhas, of Syracuse, N.Y.; B.A. University of Chicago, 1981. Electrical Engineering and Computer Science.

Jill Elaine Schmidt, of Highland, N.J.; B.S. The Johns Hopkins University, 1985.

Felix Sepp Seebacher, of Rottenmann, Austria; Diploma University of Agriculture, Vienna, Austria, 1979; Diploma, International Institute for Hydraulic and Environmental Engineering, Delft, Netherlands, 1982. Geography and Environmental Engineering.

Subhash Suri, of Baltimore, Md.; B.E. University of Roorkee, India, 1981. Electrical Engineering and Computer Science.

Christine Louis Tiller, of St. Louis Park, Minn.; B.S. California Institute of Technology, 1985. Geography and Environmental Engineering.

John Paul Wright, Jr., of Roswell, N.M.; B.S. University of Houston, 1984. Geography and Environmental Engineering.

Thomas Yongmin Yi, of Albany, Calif. Chemical Engineering.

*A Theoretical Investigation of Patterns of Reactivity in Endothermic Retroene Reactions of Coal Model Compounds.*

## MASTER OF ARTS

in The G.W.C. Whiting School of Engineering

Robert Nicholas Andrei, of Baltimore, Md.; B.S. Virginia Polytechnic Institute and State University, 1981. Geography and Environmental Engineering.

Robert Lee Johnson, of Paledonia, Mich.; B.S. Calvin College, 1981. Geography and Environmental Engineering.

Martha Nadia Jarosewich, of Silver Spring, Md.; B.S. University of Maryland, 1980. Geography and Environmental Engineering.

*Correspondence of Historical Land Use, Meteorological Events and Sediment Accumulation in Furnace Bay, Maryland.*

## MASTERS OF ARTS

in The School of Arts and Sciences

Jonathan Seth Adams, of New Haven, Conn.; B.A. Columbia University, 1983. Writing Seminars.

*Experiment or Interpretation: The Scientific Status of Psychoanalysis.*

Margaret Kate Aisenberg, of Boston, Mass. English.

Susan Rose Aisenstein, of Philadelphia, Pa.; B.A. Bryn Mawr College, 1979. Political Economy.

Reiner Ansen, of Pfalz, West Germany. German.

Ned Clark Balbo, of Mineola, N.Y.; B.A. Vassar College, 1981. Writing Seminars.

*At the Aerodrome.*

Martin Besancon, of Paris, France. French.

Glenn Leo Blake, of Liberty, Texas; A.A. Lee College, 1976; B.A. Rice University, 1979; M.A. University of Houston, 1984. Writing Seminars.

*Old River.*



- Brandon Lisa Bond, of Baltimore, Md. Sociology.
- James Richard Boylan, of Upper Darby, Pa.; B.A. Wesleyan University, 1980. Writing Seminars.  
*Potter's Field.*
- William Stanley Burgett, of Norman, Okla.; B.A. University of California at Berkeley, 1977. Physics and Astronomy.
- Catherine Jean Campbell, of Baltimore, Md.; B.A. University of Toronto, 1983. History of Art.
- Mirha Capiro, of Miami, Fla.; A.A. Miami-Dade Community College, 1981; B.S. University of Miami, 1984. Earth and Planetary Sciences.
- Rebecca Williams Carmody, of Biloxi, Miss.; B.S. University of Connecticut, 1984. Earth and Planetary Sciences.
- Genesis Sy-Shyan Chen, of Taipei, Taiwan; B.Bus. Admin. National Taiwan University, 1980. Political Science.  
*The Developmental Path of Taiwan: An Alternative Interpretation.*
- Keen Nam Chung, of Baltimore, Md.; B.S. Oregon State University, 1974; M.S., 1976; M.S. University of Wisconsin at Madison, 1980. Political Economy.
- Yuan-Jen Chiang, of Baltimore, Md.; B.Sc. National Taiwan Normal University, 1979. Mathematics.
- Jinhyung Chu, of Baltimore, Md.; B.A. Seoul National University, 1981. Political Economy.
- Eileen Gale Claar, of Osterburg, Pa.; B.S. University of Pittsburgh at Johnstown, 1984. Biophysics.
- Michael Charles Clive, of New York, N.Y.; B.A. Fairleigh Dickinson University, 1973. Writing Seminars.  
*Views of the 1985-1986 Musical Season.*
- Thomas Patrick Cole, of Baltimore, Md.; B.A. Vassar College, 1983. History.
- Luz Noemi Curet, of Santurce, Puerto Rico; B.A. University of Puerto Rico, 1980; M.A. New York University, 1982. Hispanic and Italian Studies.
- Thomas Ernest Abell Dale, of Baltimore, Md.; B.A. University of Toronto, 1984. History of Art.
- John Coleman Darnell, of Prattville, Ala.; B.A. The Johns Hopkins University, 1984. Near Eastern Studies.  
*Studies on the Reign of Thutmose I.*
- Pablo Julian Davis, of New York, N.Y.; B.A. University of Maryland, 1981. History.
- Matthew Todd DeLand, of Ann Arbor, Mich.; B.A. Washington University, St. Louis, 1983. Physics and Astronomy.  
*Solar Ultraviolet Emissions from Jupiter.*
- Bernd Dornseifer, of Bielefeld, Germany. History.  
*Factors in the Institutional Development of a University: The Johns Hopkins University, 1889-1929.*
- Marty John Duvall, of Westminster, Md.; B.S. Muhlenberg College, 1984. Chemistry.
- Mark Michael Easton, of Arlington, Va.; B.A. Columbia University, Near Eastern Studies.  
*The Political Process in the Old Kingdom: Absolutism vs. Aristocracy.*
- Dan Samuel Edidin, of Baltimore, Md. Mathematics.
- Bruce Lee Elliott, of Baltimore, Md.; B.A. St. John's College, 1982. Physics and Astronomy.
- Katherine Lynn Eubanks, of Boynton Beach, Fla. Writing Seminars.  
*Interfaces: Contemporary and Historical Perspectives on Medicine.*
- Joseph Dominic Falvo, of Annandale, Va.; B.A. Loyola University, Louisiana, 1974; M.A. Catholic University of America, 1977; M.A., 1979. Hispanic and Italian Studies.  
*The Economy of Human Relations in Castiglione's Libro del Cortegiano.*
- Robert Daniel Feinstein, of Albany, N.Y. History.  
*The Reception of Adam Smith's Wealth of Nations in England and Scotland, 1800-1850.*
- Julie Deane Fishbein, of Baltimore, Md.; B.A. The Johns Hopkins University, 1981. Writing Seminars.  
*One Foot in the Feathergrass.*
- Laura Moleski Franc, of Orchard Park, N.Y.; B.A. State University of New York at Buffalo, 1983. French.
- Marcie Andrea Frank, of Detroit, Mich. English.
- David Spotts Fry, of Mechanicsburg, Pa. Mathematics.
- Sylvia Fuchsel, of Bielefeld, Germany. History.  
*The Breakdown of Authoritarianism and the Return to Democracy in Argentina: Regime Transformation and Political Changes Between 1976 and 1985.*
- Lynn Satoko Fujise, of Honolulu, Hawaii; B.S. Harvey Mudd College, 1983. Chemistry.
- Alessandra Galizzi, of Baltimore, Md. History of Art.
- Andrew D. Gavrin, of New Rochelle, N.Y. Physics and Astronomy.
- Jan Ruth Gehorsam, of New York, N.Y. Writing Seminars.  
*Night Country.*
- Jay Michael Gillen, of Baltimore, Md.; B.A. Yale University, 1981. Humanities.
- Sigurour Reynir Gislason, of Reykjavik, Iceland; B.S. University of Iceland, 1980. Earth and Planetary Sciences.  
*Meteoric Water-Basalt Interactions: Field and Laboratory Study.*
- Herbert Sydney Guggenheim, of Washington, D.C.; B.A. New College, 1978; M.A. American University, 1980; Ph.D. University of Southern Mississippi, 1983. Writing Seminars.  
*Tranquility Base.*

- Chaibong Eric Hahm, of Seoul, Korea.; B.A. Carlton College, 1980. Political Science.  
*South Korea vs. Taiwan: Debt Led vs. Export Led Growth: A Comparative Analysis of Economic Development Patterns.*
- Richard Lewis Hall, Jr.; B.A. The Johns Hopkins University, 1984; M.A., 1984. Writing Seminars.  
*In Africa We Are Free: Black Americans in Maryland in Liberia.*
- Mary Virgene Hanna, of Fairbanks, Alaska; B.A. Soma State College, 1973. Sociology.
- Elizabeth Hanson, of Baltimore, Md.; B.A. University of Toronto, 1978. English.
- Maureen Anne Harkin, of Baltimore, Md. History of Art.
- Mark Thomas Harris, of Corington, Ky.; B.S. University of Rochester, 1978; M.S. University of Wisconsin, 1982. Earth and Planetary Sciences.
- Joseph Hobson Harrison III, of Baltimore, Md. English.
- Rebecca Gault Heumann, of Bloomington, Ind. German.
- Pamela Elizabeth Hinkle, of West Hartford, Conn.; B.A. Connecticut College, 1981. Philosophy.
- Bonnie Helen Honig, of Montreal, Canada; B.A. Concordia University, 1980; M.S. University of London, 1981. Political Science.  
*Beyond Porcupine Liberalism: The Concept of Respect for Persons in the Moral and Political Philosophies of Immanuel Kant and Thomas Hill Green.*
- Amy Jo Hostetler, of Hershey, Pa.; B.A. Lebanon Valley College, 1984. Writing Seminars.  
*The Heart of a Halfway Technology.*
- Bruce James Hrnjez, of Norfolk, Va. Chemistry.  
*Synthetic Approaches to Macrobicyclic Allenes and Alkenes.*
- Lisa Ijiri, of Palo Alto, Calif. Psychology.  
*A Developmental Perspective on Cognitive Mechanisms in Number Processing and Calculation.*
- Hiroyuki Imai, of Baltimore, Md.; B.A. Keio University, 1974; M.A. University of Michigan, 1982. Political Economy.
- Syed Arif Kamal, of Hyderabad, Pakistan; M.S. Indiana University, 1982. Physics and Astronomy.  
*The Effects of Magnetic Field on Scale Formation.*
- Ben Keith Kaneda, of Baltimore, Md.; of B.A. Pennsylvania State University, 1976; M.A. University of Washington at Seattle, 1980. Earth and Planetary Sciences.
- Andrew Z. Katz, of New York, N.Y.; B.A. Brandeis University, 1980. Political Science.  
*Public Opinion, Congress and the Termination of the Vietnam War.*
- Elizabeth Sharon Kelly, of Villanova, Pa. Humanities.
- John Christopher Kilgallon, of Baltimore, Md. Psychology.  
*Testing the Elaboration Hypothesis of Memory for Faces.*
- David Joseph Seymour King, of Baltimore, Md.; B.A. Yale University, 1980. History.
- Alouette G. Kluge, of New York, N.Y.; B.A. Radcliffe College, 1981. Political Science.  
*Nuclear Deterrence and Just War Theory.*
- William Bergen Kouwenhoven, of Baltimore, Md. Humanities.
- Eliot Franklin Krieger, of Laguna Beach, Calif.; B.A. University of California at Los Angeles, 1981. Philosophy.
- John Francis Krizmanic, of Joliet, Ill.; B.A. Northwestern University, 1983. Physics and Astronomy.
- Dirk Franz Kroegel, of Berlin, Germany; M.A. Freie Universität, Berlin, 1984. Political Science.  
*Zbigniew Brzezinski as National Security Adviser: The Fall in Power from Kissing Era.*
- Robin D. Kundis, of Long Beach, Calif.; B.A. Pomona College, 1985. Writing Seminars.  
*Human Chemistry.*
- Fred Gifford Leebron, of Philadelphia, Pa.; B.A. Princeton University, 1983. Writing Seminars.  
*Houses.*
- Debbie Ann LeMieux, of Kalamazoo, Mich.; B.A. University of Massachusetts at Boston, 1985. Writing Seminars.  
*The Wanderer.*
- Jean Cara Lenihan, of New York, N.Y. Writing Seminars.  
*We Were Alone.*
- Nikia Clark Leopold, of Washington, D.C.; B.A. Smith College, 1967; Ph.D. The Johns Hopkins University, 1979. Writing Seminars.  
*Found Objects.*
- Andrew Gordon Levy, of Mt. Holly, N.J.; B.A. Brown University, 1984. Writing Seminars.  
*Halfway House.*
- Gordon Jonathan Lewis, of Santurce, Puerto Rico. History.  
*Black Utopias and White Babylones: The Paradoxes of Thought and Practice on City and Countryside in South Africa, 1860-1930.*
- Jeanne Ann Lindquist, of Lawrenceville, Ga.; B.S. University of Georgia, 1982. Biology.
- William Aaron Lyle, of Schenectady, N.Y.; B.S. College of William and Mary, 1983. Physics and Astronomy.
- John Anthony Maltese, of Baltimore, Md.; B.A. Duke University, 1982. Political Science.  
*The Office of Communications: Its Functional Evolution.*

- Elizabeth Mancke, of Atlanta, Ga.; B.A. Colorado College, 1977; M.A. University of British Columbia, 1984. History.
- Marian Frances Matrician, of Baltimore, Md.; B.A. University of Texas at Austin, 1977. History.  
*Labor Roles of Women in Late Medieval Cologne.*
- Luigina Mattioli, of Mantova, Italy. Political Economy.  
*Wealth and Value—A Critique of the Economics of Justice.*
- Brian Alexander MacDonald, of Newton, Mass. Mathematics.
- Douglas Frank McDonald, of Iowa City, Iowa; B.A. College of Wooster, 1980. Political Economy.
- Tyrus Henry Miller, of San Francisco, Calif. Humanities.
- Christine Mullin, of Staten Island, N.Y.; B.A. Marymount Manhattan College, 1975. Writing Seminars.  
*Falling.*
- Paul Andrew Mullin, of Amherst, Mass.; B.A. Carleton College, 1984. Psychology.
- In Seung Nam, of Seoul, Korea; B.S. Seoul National University, 1980. Earth and Planetary Sciences.
- William Maher Nelson, S.J., of Baltimore, Md.; B.S. University of North Carolina at Chapel Hill, 1976; M.A. Washington University, 1982. Chemistry.
- Jonathan Allan Neuberger, of Baltimore, Md.; B.S. Georgetown University, 1978. Political Economy.
- Edith Newton, of Macon Ga.; B.A. Dartmouth University, 1982. Earth and Planetary Sciences.
- Chau Trung Nguyen, of Thai Binh, Viet Nam; M.S. Millersville State College, 1981. Earth and Planetary Sciences.
- Naoko Nishimura, of Baltimore, Md. Political Economy.
- Nancy Marie Nobile, of New Haven, Conn.; B.A. Wesleyan University, 1982. German.
- Yuharo Ohmori, of Baltimore, Md.; B.A. Keio University, 1976; M.A., 1979. History.
- Yasuko Ohno, of Paris, France. History of Art.
- Lisa Marie Orange, of Lakewood, Ohio; B.A. Case Western Reserve University, 1985. Writing Seminars.  
*The Past and Future of Manned Space Flight.*
- Suzanne Claire Page, of Milton, N.Y.; B.A. Reed College, 1984. Psychology.
- Mark William Palen, of Amsterdam, N.Y.; B.S. United States Military Academy, 1977. Philosophy.
- Tony Douglas Peterson, of Calgary, Canada. Earth and Planetary Sciences.
- Adrianne Ellen Pierce, of Baltimore, Md. Classics.
- Charles Lee Pizer, of Peoria, Ill.; B.A. Indiana University; M.P.A. Southern Illinois University, 1981. Political Science.  
*Political Behavior and the Public Philosophy: Congress, the Presidency and the Role of Public Opinion.*
- John Frank Possidente, of Baltimore, Md.; B.A. The Johns Hopkins University, 1985. Writing Seminars.  
*Some Lives of Science.*
- Adam Stanley Potkay, of Jersey City, N.J.; B.A. Cornell University, 1982. English.
- Zi-quang Qiu, of Beijing, China; B.S. Peking University, 1984. Physics and Astronomy.
- Kenneth M. Reinhard, of Chicago, Ill.; B.A. University of California at Santa Cruz, 1981. English.
- Kathryn Emery Rhett, of Utica, N.Y.; B.A. The Johns Hopkins University, 1984. Writing Seminars.  
*Bodies of Water.*
- Susan Patricia Rochester, of San Diego, Calif.; B.A. York University, 1983. History.  
*On Josiah Royce: A Philosopher's Historical Thought.*
- Elizabeth Ellen Roettger, of Patterson, N.J.; B.A. Hiram College, 1983. Physics and Astronomy.
- Charles C. Rutheiser, of Hempstead, N.Y.; B.A. New College, 1983. Anthropology.
- Phyllis Ryder, of Ouagadougou, Upper Volta. Writing Seminars.  
*Down the Highway Barefoot.*
- Haydee Salmun, of Buenos Aires, Argentina; M.S. University of Missouri, 1980. Earth and Planetary Sciences.
- Benigno Ramon Sanchez-Eppler, of Patibonico, Cuba; B.A. Williams College, 1979; M.Phil. University of Cambridge, 1983. Hispanic and Italian Studies.
- Karen Jill Sanchez-Eppler, of Baltimore, Md.; B.A. Williams College, 1981. English.
- Suzanne Carol Senay, of Baltimore, Md.; B.A. Yale University, 1981. Philosophy.
- Linda Ann Shaw, of Atlanta, Ga. Writing Seminars.  
*Face Absent.*
- Constance Joanna Sheldon, of Alexandria, Va.; B.A. Cornell University, 1975. German.
- Deanna Marie Shemek, of Lincoln, Neb.; B.A. University of Nebraska at Lincoln, 1981. Hispanic and Italian Studies.
- Sydney Jocelyn Shep, of Baltimore, Md.; B.A. University of Toronto, 1982. English.
- Stergios Skaperdas, of Baltimore, Md.; B.A. Reed College, 1982. Political Economy.
- Janet Skelton, of Norwalk, Conn. Writing Seminars.  
*The Ecology of Aids.*

- Joseph Taylor Snodgrass, of Solana Beach, Calif.; B.S. Case Western Reserve University, 1980. Chemistry.
- Scott Michael Sokol, of New Windsor, N.Y.; B.A. Brandeis University, 1984. Psychology.
- Thomas Joseph Staudter, of New York, N.Y.; B.A. University of Pennsylvania, 1981. Writing Seminars.  
*Profound as the Grave.*
- Alfred Gerard Stern, Baltimore, Md.; B.S. Stockton State College, 1977; M.S. University of Maryland, 1979. Chemistry.
- Frederick Henry Streitz, Jr., of Clearwater, Fla. Physics and Astronomy.
- Raymond Chien Sun, of Baltimore, Md.; B.A. Swarthmore College, 1982. History.
- Mary Jane Sundius, of Baltimore, Md.; B.A. Yale University, 1978. Public Policy.  
*School-Based Budgeting and Management: Policy Analysis and Recommendations.*
- Douglas Richard Swift, of Bridgeport, Conn.; B.A. University of Bridgeport, 1985. Writing Seminars.  
*The Old Road.*
- Joanne Kathryn Tangorra, of New York, N.Y.; B.A. Hofstra University, 1977. Writing Seminars.  
*An Eye to the Lighting.*
- Yang Tong, of Peking, China. Political Science.  
*Economic Development and Political Development in China, 1978-1984.*
- Thomas Robert Towns, of Fort Wayne, Ind.; B.S. St. Louis University, 1980. Near Eastern Studies.
- Jenn-Hwa Tu, of Tainan, Taiwan; B.S. National Taiwan University, 1977; M.A. Thammasat University, 1981. Political Economy.
- Hiroshi Ueno, of Baltimore, Md.; B.E. Tohoku University, 1964; M.E. Tokyo University, 1966; M.A. Massachusetts Institute of Technology, 1975. Political Economy.
- Eberle Ann Umbach, of Lake Forest, Ill.; B.A. Oberlin College, 1983. Writing Seminars.  
*Woman Without Arms.*
- Monica Maria Van Beusekom, of Baltimore, Md.; B.A. Tufts University, 1982. History.
- Wyger Rykele Velema, of Baltimore, Md. History.
- Nathalie Villard, of Paris, France; Diploma The Johns Hopkins University, 1984. Political Science.  
*Antonio Gramsci's Political Thought and the Immediate Post-War PCI Strategy.*
- Martine Carmen Voiret, of Paris, France; License Amiens University, 1978; M.A. Duke University, 1982. French.
- Leslie David Wade, of Oklahoma City, Okla.; B.A. University of Washington, 1982. Classics.
- Gwendolyn I. Walden, of Chicago, Ill. History.  
*Investigations in Western Marxist Cultural Criticism: The Aesthetics of George Simmel.*
- William George Walker, of Baltimore, Md.; B.A. University of Western Ontario, 1981; M.A., 1982. English.
- Li-Shing Wang, of Taipei, Taiwan; B.A. National Taiwan University, 1982. Political Science.  
*The Meiji Restoration and the Hundred Days Reform.*
- William Parker Webb, of Providence, R.I. Writing Seminars.  
*Layouts.*
- Clifford Kent Weber, of Baltimore, Md. History.  
*The Reluctant Profession: The Origins of the Founding of the First American School of Public Health.*
- Steven Mitchell Wells, of South Boston, Va. Writing Seminars.  
*Noisy Desperation.*
- Thomas Welskopp, of Bochum, West Germany. History.  
*Approaching Class Structures: Social Relations in the U.S. and German Steel Mills from the 1860's to the 1920's.*
- Christine Daniels Whitman, of Detroit, Mich.; B.A. University of Michigan, 1976; M.A. Stanford University, 1978. History.
- Dwight Sifri Wilson, of Nenton Square, Pa.; B.A. The Johns Hopkins University, 1985; B.E.S., 1985. Mathematics.
- Rachel Kathleen Wolford, of Dallas, Texas. History.  
*What a Woman might say of God in an Hour: Piety and Gender in the Writings of Julian of Norwich and Margery Kempe.*
- Ingrid Chyong-Hwa Wu, of Taipei, Taiwan; B.A. The Johns Hopkins University, 1985. Sociology.
- Yogi Yamaguchi, of Kearny, N.J. Writing Seminars.  
*War Stories.*
- An-Suei Yang, of Baltimore, Md.; B.S. National Tsing Hua University, 1979. Chemistry.
- Ji Jeng Yang, of Hsin-Chu, Taiwan; B.S. Taiwan Provincial College of Marine and Oceanic Technology, 1976. Earth and Planetary Sciences.
- Arie Shloma Zmora, of Haifa, Israel. History.
- Nurith Zmora, of Baltimore, Md.; B.A. Hebrew University of Jerusalem, 1975. History.  
*French Anti-Italian Prejudices During the "Fonde" 1648-1650 Myth or Legend.*

## DOCTORS OF EDUCATION

### in The School of Continuing Studies

Frona Alice Holzman Brown, of Baltimore, Md.; B.A. Goucher College, 1965; M.L.A. The Johns Hopkins University, 1970; M.Ed., 1976.

*The Prediction of Persistence, Success, and Achievement in a Developmental Arithmetic Course at an Urban Community College.*

Barbara Bateman Heinfeld, of Baltimore, Md.; B.S. West Chester State University, 1968; M.Ed. Towson University, 1980.

*A Validity Study of Fifteen Discrepancy Procedures for Classifying Children as Learning Disabled.*

Diane Barbara Jacobs, of Baltimore, Md.; B.A. Towson State University, 1971; M.L.A. The Johns Hopkins University, 1973; C.A.S.; 1979.

*The Effects of a Writing Mentorship Program upon the Career Selections, Attitude, and Opinions of Gifted and Talented High School English Students.*

Donna Gilles Williams, of Silver Spring, Md.; B.S. University of Maryland, 1975; M.S. The Johns Hopkins University, 1980.

*The Use of Alternating Treatments Design to Compare Blissymbol-to-Referent Matching Tasks and Photograph-to-Matching Tasks in Individuals with Severe Mental Retardation.*

Catherine Ann Ritter, of Towson, Md.; B.A. Goucher College, 1958; C.A.S. The Johns Hopkins University, 1964; M.Ed., 1969.

*The Prediction of Persistence, Success, and Achievement in a Developmental Reading Course at an Urban Community College.*

Anne Catherine Smith, of Baltimore, Md.; M.A. Gallaudet College, 1978.

*The Effects of Extended School Year Programming on Skill Acquisition and Aberrant Behaviors of Children with Rett Syndrome.*

Dianne Hodas Tobin, of Columbia, Md.; B.A. Barnard College, 1960; M.A. Columbia University, 1962; M.Ed. The Johns Hopkins University, 1979.

*A Longitudinal Study of Values and Career Interests of Mathematically Gifted Students.*

## DOCTORS OF MUSICAL ARTS

### in The Peabody Conservatory of Music

Linda Apple-Monson, of Richfield, Penna.; B.M. Peabody Conservatory of Music, 1979; M.M., 1981. Piano.

*The Solo Piano Music of Ross Lee Finney.*

John Randal Hawkins, of Baltimore, Md.; B.M. Furman University, 1978; M.M. Peabody Conservatory of Music, 1980. Piano.

*Components and Processes in Composition for the Player-Piano: Selected Works by Edward Oswald Schaaf.*

Marmaduke S. Miles, of Durham, N.C.; B.M. Georgia Southern College, 1972; M.M. Southern Methodist University, 1974. Piano.

*The Solo Piano Music of Mrs. H. H. A. Beach.*

Jacques C. Vois, of West Chester, Penna.; B.M. Oberlin Conservatory of Music, 1958; M.M. Manhattan School of Music, 1963. Piano.

*Leon Barzin, America's Pioneer Orchestra Trainer.*



## DOCTORS OF SCIENCE

### in The School of Hygiene and Public Health

- Greg Roy Alexander, of Charleston, S.C.; B.S. College of Charleston, 1971; M.P.H. University of South Carolina, 1976. Maternal and Child Health.  
*Effects of Prenatal Care Utilization Within and Between Racial Subgroups on Measures of Infant Maturity at Delivery and Neonatal Mortality.*
- Eddie B. Beatty, of Pennington Gap, Va.; B.S. Kentucky State College, 1964; M.S. Howard University, 1966; M.D. Meharry Medical College, 1971; M.P.H. University of Michigan, 1974. Behavioral Sciences and Health Education.  
*Delay in Seeking Medical Care of Symptomatic Sexually Transmitted Disease Patients.*
- John Patrick Ehrenberg Enriquez, of Mexico City, Mexico; M.D. Universidad Nacional Autonoma de Mexico, 1977; Sc.M. London School of Hygiene and Tropical Medicine, 1978. Immunology and Infectious Diseases.  
*Identification and Characterization of Circulating Parasite Antigens in *Dirofilaria Immitis* Infected Dogs.*
- Richard Walter Freeman, of Baltimore, Md.; B.S. Cornell University, 1973; B.S. The Johns Hopkins University, 1975; M.P.H., 1978. Epidemiology.  
*A Survey of Neurologic Symptoms Among Members of the International Brotherhood of Painters and Allied Trades.*
- Kathleen Galbraith, of New York, N.Y.; B.S. Villanova University, 1971; M.S. University of Delaware, 1979. Maternal and Child Health.  
*Effects of Parental Cigarette Smoking on Respiratory Illness in Young Children.*
- Shuang-Yu N. Hsing, of Taipei, Taiwan; B.S. China Medical College, 1978; M.H.S. The Johns Hopkins University, 1982. Health Policy and Management.  
*A Resources Planning Model for Hospital Management.*
- Lorraine Bernadette Johnson, of Scranton, Pa.; B.S.N. University of Pennsylvania, 1970; M.A. Marywood College, 1976; M.P.H. The Johns Hopkins University, 1979. Health Policy and Management.  
*Determining Nursing Personnel Requirements in a Long-Term Care Facility for Aging Patients with Chronic Mental Disorders.*
- Karen Orloff Kaplan, of McLean, Va.; B.A. Goucher College, 1963; M.S.W. Ohio University, 1966; M.P.H. The Johns Hopkins University, 1976. Health Policy and Management.  
*A Study of the Impact of PSRO Medical Care Evaluation Studies.*
- James Lewis, of Chicago, Ill.; B.A. University of Pittsburgh, 1973; M.B.A. Northwestern University, 1974. Health Policy and Management.  
*Cost/Revenue/Volume Relationship Under Different Reimbursement Systems.*
- C. Alan Lyles, of Baltimore, Md.; B.A. Loyola College, 1972; B.S.Pharm. University of Maryland, 1980; M.P.H. The Johns Hopkins University, 1981. Health Policy and Management.  
*Investor-Ownership in Acute Psychiatric Hospitalization: Cost and Access Implications.*
- Leona Enama Markson, of Haverford, Pa.; B.S. Pennsylvania State University, 1979; M.H.S. The Johns Hopkins University, 1982. Health Policy and Management.  
*A Simulation Study of Huntington's Disease Onset.*
- T. K. Natarajan, of Baldwin, Md.; D.R.E. St. Xavier's College, 1956; B.E.S. The Johns Hopkins University, 1963; M.S.E.E., 1969. Environmental Health Sciences.  
*Measurement and Specification of Intrinsic Spatial Resolution for Gamma Ray Camera.*
- James Reed, of Baltimore, Md.; B.A. San Diego State College, 1957; M.P.H. University of California at Berkeley, 1963. Health Policy and Management.  
*Biochemical Discriminators of Alcohol Abuse.*
- Rima Evalin Rudd, of Auburndale, Mass.; B.A. Hunter College, 1963; M.S.P.H. University of Massachusetts, 1980. Behavioral Sciences and Health Education.  
*Consequences of Screening and Labelling for High Normal Blood Pressure in an Adolescent Population.*
- Rona Sayetta, of Washington, D.C.; B.S. Duke University, 1966; M.D. University of Maryland, 1981; M.P.H. The Johns Hopkins University, 1983. Mental Hygiene.  
*The Relationship of Anxiety and Serum Uric Acid: A Model of Psychosomatic Disease.*
- Larry Neil Scherzer, of New York, N.Y.; B.S. Rensselaer Polytechnic Institute, 1971; M.D. Albany Medical College of Union University, 1971; M.P.H. The Johns Hopkins University, 1977. Behavioral Sciences and Health Education.  
*The Physician as Ethicist: The Case of Amniocentesis for Prenatal Diagnosis.*
- Joseph Shane, of New York, N.Y.; B.S.S. City College of New York, 1948; M.Ed. Goucher College, 1969. Health Policy and Management.  
*Determinants of Career Choice and Place of Practice: A Profile of First Year Medical Residents.*



Lee-Lan Yen, of Taipei, Taiwan; B.Ed. National Taiwan Normal University, 1971; M.P.H. National Taiwan University, 1973. Behavioral Sciences and Health Education.

*A Behavioral Approach to Changing Sodium Intake Among High-Risk Adolescents in Taiwan.*

Ellen Marie Zinzeleta, of Catonsville, Md.; B.A. Shepherd College, 1981. Maternal and Child Health.

*The Prediction of Mental Skill in School Age Children.*

## DOCTORS OF PHILOSOPHY

### in The School of Advanced International Studies

Rafael S. Carel, of Tel-Aviv, Israel; M.D. Hebrew University, 1967; M.Sc. Drexel University, 1969; M.P.H. Hebrew University, 1979. Environmental Health Sciences.

*Rate of Decline of Ventilatory Lung Function and the Factors Contributing to This Decline in a Group of Employed Israeli Men—A Longitudinal Study.*

Teresta Torres Finlay, of Santiago, Philippines; B.S.N. University of Santo Tomas, 1960; M.P.H. Tulane University, 1966. Health Policy and Management.

*Congruence of Basic Nursing Education and the Health Care Needs of Botswana.*

Michael John Keane, of New York, N.Y.; B.S. St. Peter's College, 1964; M.H.S. The Johns Hopkins University, 1975. Health Policy and Management.

*Correlates and Predictors of Physician Admitting Privileges and Practice Patterns.*

Wilson Kisambira Kisubi, of Namakoba, Uganda; M.B.-Ch.B. Makerere University, 1971. Maternal and Child Health.

*Infectious Diseases and the Growth of Intra-uterine Growth Retarded Infants in Guatemala.*

Rudolf A.T.G. Knippenberg, of Amsterdam, Netherlands; M.D. State University at Utrecht, 1977; M.P.H. The Johns Hopkins University, 1981.

*A Methodology for Monitoring and Evaluation of Coverage with Essential Primary Health Care Interventions.*

Linda Sue Thompson, of Detroit, Mich.; B.S.N. Wayne State University, 1974; M.S.N., 1978; M.P.H. The Johns Hopkins University, 1985. Maternal and Child Health.

*Health Compromising Behaviors and the Occurrence of Injury Among Rural Adolescents.*

## DOCTORS OF PUBLIC HEALTH

### in The School of Hygiene and Public Health

Cheryl Heather Agris, of Arlington, Va.; B.A. Goucher College, 1979. Biochemistry.

*Effects of Chemically Synthesized Oligodeoxyribonucleoside Methylphosphonates on Vesicular Stomatitis Virus Protein Synthesis and Infection.*

Elias Aizenman-Stern, of Mexico City, Mexico; B.A. Boston University, 1981. Environmental Health Sciences.

*Studies on the Mechanism of Anticholinesterase Induced Back-firing in Mammalian Motor Nerves.*

Michael Balady, of Joppatowne, Md.; B.A. Rutgers University, 1972; M.S.P.H. University of Missouri, 1974. Immunology and Infectious Diseases.

*Mechanisms of Resistance and Susceptibility in MHV-2.*

Stephen Mallory Bowes, III, of Jacksonville, Fla.; B.S. U.S. Merchant Marine Academy, 1978; M.H.S. The Johns Hopkins University, 1981. Environmental Health Sciences.

*Particle Deposition in the Mouth During Oro-nasal Breathing.*

Patrick Nolan Breyse, of Seattle, Wash.; B.S. Washington State University, 1978; M.H.S. The Johns Hopkins University, 1980. Environmental Health Sciences.

*Prediction of Activated Carbon Bed Service-Life Using the Dubinin/Wheeler Model.*

Deborah Lynn Brimlow, of Beaumont, Texas; B.A. Lamar University, 1975; M.A. University of Houston, 1980. Behavioral Sciences and Health Education.

*Psycho-Social Variables Associated with Recovery After Myocardial Infarction.*

Lorraine Litwinski Cameron, of Wyandotte, Mich.; B.S. University of Michigan, 1974; M.P.H., 1976. Environmental Health Sciences.

*Association of Senile Lens and Dermal Changes with Cumulative Ultraviolet Exposure.*

Deborah Anne Dawson, of Washington, D.C.; B.A. University of Michigan, 1970; M.A. Georgetown University, 1975. Population Dynamics.

*The Effects of Formal Sex Education on Adolescent Intercourse, Contraceptive Knowledge and Use and Pregnancy.*

- Virginia Jonas Dersch, of Baltimore, Md.; B.A. Goucher College, 1974. Behavioral Sciences and Health Education.
- An Investigation of Social Support: Grandparents and Grandchildren Under the Stress of Parental Divorce.*
- Joanne F. Dorgan, of Baldwin, N.Y.; B.S. Cornell University, 1974; M.P.H. University of North Carolina, 1976. Epidemiology.
- Case Control Study of Apparent Life-Threatening Apneic Episodes in Non-Hospitalized Infants.*
- William E. Fayerweather, of Ypsilanti, Mich.; B.S. University of Michigan, 1973; M.P.H., 1975. Epidemiology.
- The Impact of Smoking Low-Tar Cigarettes on Pulmonary Function: A Study in the Dupont Company's Wilmington Office Building Employees.*
- Victoria L. Han, of Laurel, Md.; B.A. Goucher College, 1980. Immunology and Infectious Diseases.
- Studies on the Immune Regulation of Murine Intestinal Goblet Cells.*
- Joseph Geraldo Jacangelo, of Fairfield, N.J.; B.A. Rutgers University, 1978. Environmental Health Sciences.
- Mechanism of Microbial Inactivation by Monochloramine.*
- Jane McNany Jacobson, of Shawnee Mission, Kans.; B.S.N. University of Kansas, 1976; M.P.H. The Johns Hopkins University, 1980. Environmental Health Sciences.
- A Study of the Effects of Antioxidants and Antioxidant Enzymes on Oxygen-Induced Lung Injury.*
- Jeffrey Vaughn Johnson, of Minneapolis, Minn.; B.A. University of Minnesota, 1980. Behavioral Sciences and Health Education.
- The Impact of Workplace Social Support, Job Demands and Work Control Upon Cardiovascular Disease in Sweden.*
- Sukon Kanchanaraksa, of Bangkok, Thailand; B.A. The Johns Hopkins University, 1977; M.H.S., 1979. Epidemiology.
- Neonatal Apnea and Bradycardia as Predictors of Postneonatal Death in Low Birth Weight Infants Discharged from Neonatal Intensive Care Units.*
- Suzanne Kennedy-Stoskopf, of Nashville, Tenn.; B.S. Michigan State University, 1976; D.V.M., 1976. Immunology and Infectious Diseases.
- Mechanisms of Neutralization of a Non-oncogenic Retrovirus Which Causes Slow Disease.*
- Muin Joseph Khoury, of Beirut, Lebanon; B.S. American University of Beirut, 1975; M.D., 1979. Epidemiology.
- A Generologic Study of Inbreeding and Prereproductive Mortality in the Old Order Amish.*
- Jonathan Harris Lebowitz, of New York, N.Y.; B.S. State University of New York, 1978. Biochemistry.
- Biochemical Mechanisms of Strand Initiation in Bacteriophage Lambda DNA Replication.*
- Peter St. John Lees, of Baltimore, Md.; B.S. College of William and Mary, 1972. Environmental Health Sciences.
- Factors Influencing Routes of Occupational Exposure to Polychlorinated Biphenyls (PCBs).*
- Leslie A. Leonard, of Seekonk, Mass.; B.A. Colby College, 1977. Immunology and Infectious Diseases.
- A Search for Complement-like Activity in the Sea Star, ASTERIAS FORBESI.*
- Marilyn Menkes, of Ottawa, Ontario, Canada; B.A. University of British Columbia, 1965; M.S. University of Pennsylvania, 1967; M.H.S. The Johns Hopkins University, 1982. Epidemiology.
- Vitamins A and E, Selenium, and Lung Cancer Risk.*
- Andre Ndikuyezu, of Fugi, Kigembe-Butare, Rwanda; B.B.H. Universite Nationale du Rwanda, 1975; M.D., 1978; M.P.H. The Johns Hopkins University, 1984. Epidemiology.
- Immunogenicity and Safety of Measles Vaccine in Ill Children.*
- Rodrigo C. Oliveira, of Belo Horizonte, Brazil; M.S. Universidade Federal de Minas Gerais, 1980. Immunology and Infectious Diseases.
- Genetic Analysis of Defects in the Immune Response of Inbred Mice to an Attenuated Vaccine Against SCHISTOSOMA MANSONI.*
- Catherine O'Connell, of Frederick, Md.; B.A. Rivier College, 1973. Immunology and Infectious Diseases.
- The Human ERV3 Locus Contains a Full Length Retroviral Genome.*
- Kathryn M. Rost, of St. Louis, Mo.; B.S.N. St. Louis University, 1976. M.S.W. Washington University, 1981. Behavioral Sciences and Health Education.
- Patient and Provider Anxiety in the Medical Visit: Consequences for Patient Satisfaction and Compliance.*
- Audrey Frieda Saftlas, of Silver Spring, Md.; B.A. Clark University, 1977; M.P.H. University of Michigan, 1979. Epidemiology.
- Wolfe's Classification of Mammographic Parenchymal Patterns and Breast Cancer: A Case-Control Study.*
- Valentine Hixon Schaeffer, of Germantown, Md.; B.A. University of California at San Diego, 1973; M.S. University of California at Los Angeles, 1978. Environmental Health Sciences.
- The Role of Cyclic AMP in Pulmonary Xenobiotic Metabolism with Special Emphasis on Benzo[a]pyrene.*

- Susan Schober, of Baltimore, Md.; B.A. Indiana University, 1976. Epidemiology.  
*Vitamin A, Vitamin E, Selenium and Colon Cancer Risk.*
- Janet Lee Stanford, of Bremen, Ga.; B.S.N. Georgia State University, 1980; M.P.H. Emory University, 1982. Epidemiology.  
*A Study of Estrogen Receptors and Breast Cancer.*
- Daniel Jesse Sussman, of Lexington, Mass.; B.A. Brandeis University, 1979. Biochemistry.  
*The Introduction and Expression of Genes in Mammalian Cells.*
- Allison Lisa Tepper, of Somerset, N.J.; B.A. University of Pennsylvania, 1976; M.S. Rutgers University, 1978. Epidemiology.  
*A Follow-up Study of Chronic Respiratory Disease in Baltimore City Firefighters.*
- Alan Stephen Waldman, of Flushing, N.Y.; B.S. State University of New York at Albany, 1980. Biochemistry.  
*Molecular Analysis of Bacteriophage HP1c1 of Haemophilus Influenzae Rd.*
- Michael William Washabaugh, of Bay City, Mich.; B.S. University of Michigan, 1980. Biochemistry.  
*Studies on E. COLI Dihydroorotase.*
- William Frederick Wonderlin, of Carlock, Ill.; B.S. Illinois State University, 1978; M.A. Duke University, 1981. Environmental Health Sciences.  
*Regulation of Rabbit Visceral Sensory Excitability by Endogenous and Xenobiotic Substances.*

## DOCTORS OF PHILOSOPHY

### in The School of Hygiene and Public Health

- Ali A. Algayed, of Arlington, Va.; B.A. University of Libya, 1962; M.A. The Johns Hopkins University, 1974.  
*Legal Problems of the Financing of United Nations Peacekeeping Operations.*
- Jorge A. Lawton, of Washington, D.C.; B.A. Gonzaga University, 1967; M.A. The Johns Hopkins University, 1970.  
*The Search for Security through an Attitude of Control: An Analysis of Hegemony and Legitimation in Carter Administration Policy toward Nicaragua 1977-1979.*
- Gordon H. McCormick, of Santa Monica, Calif.; B.A. University of Wisconsin, 1975; M.A. The Johns Hopkins University, 1977.  
*Surrogate Forces and Soviet Foreign Policy.*
- Jennifer Sims, of Riverside, Conn.; B.A. Oberlin College, 1975; M.A. The Johns Hopkins University, 1978.  
*An Intellectual History of American Arms Control Thought 1945-1960.*
- Richard Wood Smith, of Annapolis, Md.; B.S. United States Naval Academy, 1951; M.A. Catholic University of America, 1962; M.S. George Washington University, 1973.  
*Military Intervention: Considerations for Modern Practitioners.*

## DOCTORS OF MEDICINE

### in The School of Medicine

- Lee Scott Albert, of Newton, Mass.; B.A. Harvard University, 1982.
- Robert Michael Anthenelli, of Middlesex, N.J.; B.A. The Johns Hopkins University, 1981.
- Kathleen Marie Antishin, of Utica, Mich.; B.A. Wayne State University, 1982.
- William Seth Aronstein, of Great Neck, N.Y.; B.A. Wesleyan University, 1975; Ph.D. The Johns Hopkins University, 1983.
- Rodger Alan Blake, of Annandale, Va.; B.A. University of Virginia, 1982.
- Kenneth Sanford Blumenfeld, of Metuchen, N.J.; B.S. Rutgers University, 1982.
- William Clayton Bordley, of Atlanta, Ga.; B.A. University of North Carolina, 1982.
- Janice Marie Boughton, of LaJolla, Calif.; B.A. Stanford University, 1982.
- Mark Steven Brown, of Tulsa, Okla.; B.A. Washington University in St. Louis, 1982.
- Gregory Alan Buser, of Lake Orion, Mich.; B.S. Michigan State University, 1982.
- John Davis Butler, Jr., of Washington, D.C.; B.S. Loma Linda University, 1982.
- Edward Earl Cain, of Chicago, Ill.; B.S. Illinois Wesleyan University, 1982.
- David John Callans, of Joliet, Ill.; B.A. University of Chicago, 1982.
- Kurtis Alan Campbell, of Kettering, Ohio; B.A. Denison University, 1982.
- Stephen C. Cannon, of Abington, Pa.; B.S. Washington University in St. Louis, 1980; M.S., 1980.
- Cecelia Louise Carbrey, of Ames, Iowa; B.S. Iowa State University, 1982.
- Scott Paul Carnivale, of Livingston, N.J.; B.A. The Johns Hopkins University, 1982.
- John Christopher Chaloupka, of Massapequa, N.Y.; B.S. Union College, 1982.
- Margaret Mary Cortese, of Hartland, Mich.; B.S. University of Michigan, 1982.
- Alfred Jenkins Covington, Jr., of Roosevelt, N.Y.; B.A. Brown University, 1982.
- Beth Ann Derfus, of Greendale, Wis.; B.S. Marquette University, 1982.
- Beth Mona Deutch, of Baltimore, Md.; B.A. Brown University, 1982.
- Anne Marie Duncan, of New York, N.Y.; B.S. Fordham University, 1982.
- Gregory John Duncan, of Mercer Island, Wash.; B.S. University of Washington, 1982.
- David Alan Echelman, of Tampa, Fla.; B.A. Amherst College, 1979.
- Crayton Anthony Fargason, Jr., of Baton Rouge, La.; B.S., B.A. Tulane University, 1982.
- R. C. Stewart Finney, Jr., of Baltimore, Md.; B.A. Princeton University, 1981.
- Elizabeth Serrin Gantt, of McLean, Va.; B.A. Vassar College, 1982.
- Archondoula Michael Georgiou, of Baltimore, Md.; B.A. The Johns Hopkins University, 1983.
- Emily Lucy Germain, of Lancaster, Pa.; B.A. Harvard-Raddcliffe College, 1981.
- Karl Clifford Golnik, of Manchester, Conn.; B.A. Amherst College, 1982.
- Joseph M. Gonzalez-Heydrich, of Lakeland, Fla.; B.A. The Johns Hopkins University, 1982.
- Matthew Lawrence Goodstein, of Chevy Chase, Md.; B.A. Clark University, 1982.
- Gregory Goodwin, of West Orange, N.J.; B.A. University of Maryland, Baltimore County, 1978.
- Christopher Guerin, of Harvey, La.; B.S. University of Southwestern Louisiana, 1982.
- David Robert Guyer, of East Meadow, N.Y.; B.S. Yale University, 1982.
- Raul J. Guzman III, of Laredo, Texas; Sc.B. Brown University, 1982.
- Paul James Hoehner, of Elkridge, Md.; B.A. The Johns Hopkins University, 1983.
- Catherine Ruth Hoff, of Littleton, Colo.; B.A. University of Virginia, 1982.
- Steven Jeffrey Hoff, of Eau Claire, Wis.; B.A. University of Minnesota, 1982.
- Travis Case Holcombe, of Phoenix, Ariz.; B.A. Brown University, 1982.

- Mun Kyung Hong, of Greenbelt, Md.; B.A. The Johns Hopkins University, 1982.
- Robert Stephen Humphrey, of Searcy, Ark.; B.S. University of Arkansas, 1981.
- David Kevin Imagawa, of Rancho Palos Verdes, Calif.; B.S. Stanford University, 1980.
- Herbert John Ingraham, of Frederick, Md.; B.S. Lafayette College, 1982.
- Jonathan Allen Javitch, of Wayzata, Minn.; B.S. Stanford University, 1980; M.S., 1980.
- Catharine Lisa Kauffman, of Monte Carlo Monaco, Place Des Moulins; B.S. Massachusetts Institute of Technology, 1981.
- Karen Eileen King, of Ruxton, Md.; B.A. Wellesley College, 1982.
- Suzanne Julia Koven, of New York, N.Y.; B.A. Yale University, 1979.
- Laurie Harue Kuwashima, of Torrance, Calif.; B.S. University of California at Los Angeles, 1982.
- Kevin William Lanighan, of Lockport, N.Y.; B.S. Niagara University, 1982.
- Moirá Potash Larsen, of Bethesda, Md.; B.S. University of Maryland, 1980; M.S., 1982.
- Steven Bernard Laster, of Hewlett, N.Y.; B.A. University of Pennsylvania, 1982.
- Kamthorn Siew-Kwan Lee, of Singapore; B.A. The Johns Hopkins University, 1983.
- Michael Alan Levitas, of Wantagh, N.Y.; B.S., B.A. State University of New York at Binghamton, 1982.
- Abraham Michael Lincoff, of Steubenville, Ohio; B.S. Carnegie-Mellon University, 1982.
- Brian Litt, of Baltimore, Md.; B.A. Harvard University, 1982.
- Julie Zrubek Livingston, of Houston, Texas; B.S. Texas A & M University, 1982.
- Clifford Arthur Lowell, of Modesto, Calif.; B.S. Stanford University, 1979.
- Michael Joseph Mangan, of Drexel Hill, Pa.; B.A. LaSalle College, 1982.
- Alan Paul Marco, of Oakhurst, N.J.; B.A. The Johns Hopkins University, 1982.
- Catherine Anna Marco, of Fenton, Mich.; B.S. Brigham Young University, 1982.
- Russell Louis Margolis, of Baltimore, Md.; B.A. Princeton University, 1982.
- Dorothea Aristotile Markakis, of Fairview Park, Ohio; B.A. Bryn Mawr College, 1982.
- Daniel Frank Martin, of Camden, Ark.; B.A. University of Arkansas, 1982.
- Charles Henry McDonnell, III, of Portland, Ore.; B.S. Portland State University, 1982.
- Ann Stacia Menzel, of Los Alamos, N.M.; B.A. The Johns Hopkins University, 1983.
- Arlene Joan Morales, of Ruxton, Md.; B.A. Goucher College, 1982.
- Athol Winston Morgan, of May Pen, Jamaica; B.A. Columbia College, 1981.
- Ronald Alvin Morton, Jr., of Colonia, N.J.; B.A. The Johns Hopkins University, 1981.
- Carolyn Marie Mulrone, of Meadowbrook, Pa.; B.A. University of Pennsylvania, 1982.
- Lois Ellen Nielsen, of Valparaiso, Ind.; B.S.N. Indiana University, 1974; M.S.N. Loyola University of Chicago, 1977.
- Catherine A. North, of New York, N.Y.; B.S. University of Maryland, 1982.
- Scott Lyle Nyberg, of Willmar, Minn.; B.S. Massachusetts Institute of Technology, 1982.
- Maria Magdalena Oliva, of Tantallon, Md.; B.S. Georgetown University, 1982.
- Rodney Scott Owen, of Gladwyne, Pa.; B.S. Pennsylvania State University, 1982.
- Sarah Louise Owens, of Baltimore, Md.; B.S. Washington College, 1977.
- Elissa Jennifer Palmer, of Hampden-Sydney, Va.; B.S. Manhattan College, 1982.
- Kenneth James Pienta, of Troy, Mich.; B.A. The Johns Hopkins University, 1983.
- Jeffrey Lee Pierson, of Covington, Ind.; B.A. Depaul University, 1982.
- Heidi Mercedes Pinkert, of Birmingham, Mich.; B.A. The Johns Hopkins University, 1980.
- John Stephen Pirolo, of Arvada, Colo.; B.A. The Johns Hopkins University, 1981.
- Hans Joaquim Prochaska, of Warren, N.J.; B.S. Rutgers University, 1981.
- Brian Dennis Quinn, of Hunker, Pa.; B.S. University of Notre Dame, 1982.
- Barry Kennedy Rayburn, of Jacksonville, Ill.; B.A. The Johns Hopkins University, 1983.
- Lee Hunter Riley III, of Baltimore, Md.; B.A. Haverford College, 1982.
- Ariella Mirowski Rosengard, of Owings Mills, Md.; B.A. The Johns Hopkins University, 1983.
- Bruce Rogers Rosengard, of Newton Centre, Mass.; B.A. Tufts University, 1981.
- Mario David Saltarelli, of East Peoria, Ill.; B.S. University of Illinois, 1982.



- James Oliver Sanders, of San Antonio, Texas; B.S., B.A. Southern Methodist University, 1982.
- Duane Ernest Lascelles Sands, of Nassau, Bahamas; B.S. Tufts University, 1982.
- Jonathan Albert Schleimer, of Los Angeles, Calif.; B.A. University of California at San Diego, 1982.
- Mark Steven Schlissel, of Old Bridge, N.J.; B.A. Princeton University, 1979.
- Jay Marvin Schlumpberger, of Palo Alto, Calif.; B.A. Stanford University, 1980.
- Beverly E. Sha, of Oak Brook, Ill.; B.S. University of Chicago, 1982.
- Wen-Hui Shen, of Taipei, Taiwan; B.A. The Johns Hopkins University, 1983.
- Nancy Sumire Shigaki, of Gardena, Calif.; B.S. University of California at Los Angeles, 1982.
- James David Silverman, of Van Nuys, Calif.; B.A. The Johns Hopkins University, 1980.
- Kuldev Singh, of Wheaton, Md.; B.S. McGill University, 1982.
- Linda Elinor Skinner, of Chicago, Ill.; B.S. Yale University, 1982.
- Thomas Burk Smyth, of Baltimore, Md.; B.A. Princeton University, 1981.
- Kenneth Jay Snow, of Everett, Mass.; B.S. Massachusetts Institute of Technology, 1982.
- Peter Hamilton Stein, of Chevy Chase, Md.; B.A. Amherst College, 1981.
- Lester Edward Stine, Jr., of Pittsburgh, Pa.; B.A. The Johns Hopkins University, 1983.
- Stephen Mark Strittmatter, of Baltimore, Md.; B.A. Harvard University, 1980.
- Nicholas D. A. Suite, of Pembroke Pines, Fla.; B.A. The Johns Hopkins University, 1982.
- Philip Michael Sweetser, of Edina, Minn.; B.S. University of Notre Dame, 1982.
- Jonathan Haskell Talamo, of Weston, Mass.; B.A. The Johns Hopkins University, 1982.
- Scott Thomas Thellman, of Overland Park, Kan.; B.A. Ottawa University, 1981.
- Angel Francisco Triana, of Hialeah, Fla.; B.A., B.S. University of Miami, 1982.
- Rosario Richard Trifiletti, of Park Ridge, N.J.; B.S. Seton Hall University, 1979.
- Thai Duc Trinh, of Rockville, Md.; B.S. Massachusetts Institute of Technology, 1982.
- Carole Annick Vannier, of Baltimore, Md.; B.E.S. The Johns Hopkins University, 1982.
- Selwyn Maurice Vickers, of Huntsville, Ala.; B.A. The Johns Hopkins University, 1982.
- Daphne Kim Walker, of Los Angeles, Calif.; B.A.S. Stanford University, 1981.
- Edward Lee Ward, of Topeka, Kan.; B.S. Kansas State University, 1982.
- Debbie Lakin Weaver, of Baltimore, Md.; B.A. The Johns Hopkins University, 1977; M.S. University of Maryland, 1980.
- Jess Thomas Whitson, of Arlington, Texas; B.A. The Johns Hopkins University, 1983.
- Fred Harrison Williams, of Lenexa, Kan.; B.A. University of Rochester, 1982.
- Nancy Jo Wilson, of Lewistown, Pa.; B.S.N. University of Pittsburgh, 1976.
- Matthew R. Wolff, of Tiffin, Ohio; B.A. College of Wooster, 1982.
- Christopher Philip Wood, of Lake Oswego, Ore.; B.A. Lewis and Clark College, 1982.
- Thomas Yeh, Jr., of Savannah, Ga.; B.S. Duke University, 1982.



## DOCTORS OF PHILOSOPHY

### in The School of Medicine

Nancy Margaret Dahms, of Milwaukee, Wis.; B.S. Marquette University, 1980. Biochemistry, Cellular and Molecular Biology Program—Biological Chemistry.

*Sulfated Glycoconjugates of Lymphocytes.*

Kevin Lawrence Gardner, of Boundbrook, N.J.; B.S. Yale University, 1979. Biochemistry, Cellular and Molecular Biology Program—Cell Biology and Anatomy.

*The Interaction of Calmodulin with the Erythrocyte Membrane and Membrane Skelton.*

David Kevin Imagawa, of Rancho Palos Verdes, Calif.; B.S. Stanford University, 1980. Pharmacology and Experimental Therapeutics.

*Consequences of Cell Membrane Attack by Complement: Release of Arachidonate and Formation of Its Oxygenated Metabolites.*

Jonathan Allen Javitch, of Wayzata, Minn.; B.S. Stanford University, 1980; M.S., 1980. Pharmacology and Experimental Therapeutics.

*Catecholamine Uptake Sites: Characterization, Localization and a Role in the Production of N-Methyl-4-Phenyl-1,2,3,6-Tetrahydropyridine-Induced Parkinsonism.*

Brian Lee Largent, of Owings Mills, Md.; B.S. Indiana State University, 1978. Pharmacology and Experimental Therapeutics.

*Pharmacological and Autoradiographic Characterization of Sigma Receptors.*

Hans Joaquim Prochaska, of Warren Township, N.J.; B.S. Rutgers University, 1981. Pharmacology and Experimental Therapeutics.

*Studies on the Mechanisms of Chemical Protection Against Carcinogens and Mutagens.*

Stephen Walter Rothwell, of Columbia, Md.; B.A. The Johns Hopkins University, 1975; M.A.S., 1980. Biochemistry, Cellular and Molecular Biology Program—Cell Biology and Anatomy.

*A Study of the Dynamic Properties of Microtubules in vitro by Immunoelectron Microscopy.*

Mark Edward Snow, of Los Altos, Calif.; B.A. University of California at Berkeley, 1981. Biochemistry, Cellular and Molecular Biology Program—Biophysics.

*An Approach to Calculating the Structural Effect of Mutations on Surface Residues of Proteins: Theory and Application to the System of Immunoglobulins.*

Stephen Mark Strittmatter, of Baltimore, Md.; B.A. Harvard University, 1980. Pharmacology and Experimental Therapeutics.

*Angiotensin Converting Enzyme in the Brain, Testis, Epididymis, Pituitary Gland and Adrenal Gland.*

Rosario Richard Trifiletti, of Park Ridge, N.J.; B.S. Seton Hall University, 1979. Pharmacology and Experimental Therapeutics.

*A Biochemical Study of Multiple Drug Recognition Sites on Central Benzodiazepine Receptors.*

Hung Tseng, of Beijing, China; B.A. Peking University, 1979. Biochemistry, Cellular and Molecular Biology and Genetics.

*Studies of Simian Virus 40 Early Gene Regulation by T Antigen.*

Victoria Ostrowski Ulrich, of Laurel, Md.; B.S. Loyola University of Chicago, 1973; M.S., 1976. Physiology.

*Insulin-Sensitive Calcium Binding Proteins in Solubilized Plasma Membranes of Rat Adipocytes.*

Judith Weiss, of San Francisco, Calif.; B.A. University of California at Berkeley, 1979. Pharmacology and Experimental Therapeutics.

*Characterization of Immunogenic Schistosoma mansoni Glycolipids and Glycoproteins.*

Ronald J. Wides, of Baltimore, Md.; B.S. Massachusetts Institute of Technology, 1980; M.S., 1980. Biochemistry, Cellular and Molecular Biology Program—Molecular Biology and Genetics.

*The Adenovirus Origin of DNA Replication: Sequence Requirements for Replication in vitro.*

Jolene J. Windle, of Camarillo, Calif.; B.A. Pt. Loma College, 1979. Biochemistry, Cellular and Molecular Biology Program—Biological Chemistry.

*Promoter and Enhancer Elements of the Xenopus Ribosomal RNA Gene.*

Raimond L. Winslow, of St. Louis, Mo.; B.S. Worcester Polytechnic Institute, 1978. Biomedical Engineering.

*A Quantitative Analysis of Rate-Coding in the Auditory-Nerve.*

## DOCTORS OF PHILOSOPHY

in The G.W.C. Whiting School of Engineering

- Waris Ali, of Lahore, Pakistan; B.S. University of Engineering and Technology, Lahore, Pakistan, 1970; M.S. University of North Carolina at Chapel Hill, 1977. Geography and Environmental Engineering.  
*Chemical Aspects of Coagulation in Lakes.*
- Andreas Gregoriou Andreou, of Nicosia, Cyprus; Diploma of Tech. Engr. Higher Technical Institute, Cyprus, 1978; B.E. Council of Engineering Institutions, England, 1980; M.S.E. The Johns Hopkins University, 1982. Electrical Engineering and Computer Science.  
*The Hall Effect and Related Phenomena in Micro-electronic Devices.*
- William Thomas Baumann, of Forest Hill, Md.; B.S. Lehigh University, 1978; M.S. Massachusetts Institute of Technology, 1980. Electrical Engineering and Computer Science.  
*Feedback Control of Nonlinear Systems by Extended Linearization.*
- Mohamed El-Said Bayoumi, of Cairo, Egypt; B.Sc. Arab Republic of Egypt, 1967; M.S.E. The Johns Hopkins University, 1983. Electrical Engineering and Computer Science.  
*Direct Detection Optical Communication with Color Coded Pulse Position Modulation Signaling.*
- Sanford Richard Buxbaum, of Baltimore, Md.; B.E.S. The Johns Hopkins University, 1979; M.S.E., 1982. Materials Science and Engineering.  
*Ultrasonic Evaluation of Crack Closure and Crack Extension in Compact Tension Specimens.*
- Yu-Chi Chang, of Keelung, Taiwan; Diploma in Chemical Engineering, Taipei Institute of Technology, 1971; M.S. Clarkson College of Technology, 1980. Chemical Engineering.  
*Experimental and Theoretical Studies on the Dissolution and Passivation of the Zinc Electrode in Alkaline Electrolyte.*
- Chin-Cheng Chen, of Baltimore, Md.; B.S.E. National Cheng Kung University, 1977; M.S.E., 1979. Chemical Engineering.  
*A Study of Photo-Induced Nucleation and its Underlying Reaction Mechanism.*
- Pen-Pong Chiang, of Baltimore, Md.; B.S. National Central University, 1976; M.S. National Taiwan University, 1978. Chemical Engineering.  
*A Kinetic Approach to Crystallization from Ionic Solution.*
- Dipa Sarkar Choudhury, of Dhaka, Bangladesh; B.Sc. Dacca University, 1975; M.Sc., 1976. Mathematical Sciences.  
*The Role of Complex Orthogonal Matrices in Matrix Factorizations.*
- Demetrios N. Christodoulides, of Nicosia, Cyprus; Diploma, Higher Technical Institute, Cyprus, 1979; M.S.E. The Johns Hopkins University, 1982. Electrical Engineering and Computer Science.  
*Solitary Waves in Optical Fibers.*
- Shyan-Lung Chung, of Miauli, Taiwan; B.S.E. National Cheng Kung University, 1977. Chemical Engineering.  
*The Counterflow Flame Burner: A New Tool for the Study of the Nucleation of Refractory Compounds.*
- Peter Louis Fuhr, of Perham, Minn.; B.S. Beloit College, 1979; M.S.E. The Johns Hopkins University, 1983. Electrical Engineering and Computer Science.  
*Free-Space Optical Communications Using Semiconductor Laser Diode Arrays.*
- Gordon Elliot Grant, of Corvallis, Ore.; B.A. University of Oregon, 1977. Geography and Environmental Engineering.  
*Downstream Effects of Timber Harvest Activities on the Channel and Valley Floor Morphology of Western Cascade Streams.*
- John Paul Gudas, of Annapolis, Md.; B.S. Purdue University, 1968. Materials Science and Engineering.  
*Micromechanisms of Fracture and Crack Arrest in Two High Strength Steels.*
- Miriam Heller, of Le Vesinet, France; B.S. University of Rochester, 1978. Geography and Environmental Engineering.  
*Location Optimization and Simulation for the Analysis of Emergency Medical Service Systems.*
- Kathleen Barbara Hogan, of Wallingford, Conn.; B.S. Bucknell University, 1978. Geography and Environmental Engineering.  
*The Development of Reservoir Operating Rules with Water Quality Objectives.*
- James Lewis Hohman, Jr., of Newark, Del.; B.S. Haverford College, 1980. Electrical Engineering and Computer Science.  
*Injection-Locking of Cavity-Dumped Flashlamp Pumped Dye Lasers.*
- Thomas Richard Hundt, of Cockeysville, Md.; B.S. Rutgers University, 1975; M.S., 1977. Geography and Environmental Engineering.  
*The Removal of Fulvic Acid Using Aluminum Coagulants: Mechanisms and Applications.*
- Robert Bruce Jacobson, of Byron, Ill.; B.A. Carleton College, 1979. Geography and Environmental Engineering.  
*Spatial and Temporal Distributions of Slope Processes in the Upper Buffalo Creek Drainage Basin, Marion County, West Virginia.*

- Sally Minch Kane, of Baltimore, Md.; B.S. Dickinson College, 1977; M.S. University of Maryland, 1979. Geography and Environmental Engineering.  
*Monopsony and the Performance of Hardwood Stumpage Markets.*
- Choon-Ho Kim, of Seoul, Korea; B.A. Sogang University, 1981; M.S.E. The Johns Hopkins University, 1985. Chemical Engineering.  
*High Pressure Vapor-Liquid Equilibrium Measurements and a New Equation of State: The Simplified Perturbed-Hard-Chain Theory.*
- Michele Lynne Le Faivre, of Baltimore, Md.; B.S. Towson State University, 1976; M.S. The Johns Hopkins University, 1980. Geography and Environmental Engineering.  
*Representing the City: Daniel Hudson Burnham and the Making of an Urban Strategy.*
- Huey-Miin Lee, of Lexington Park, Md.; B.Sc. National Taiwan Normal University, 1976. Mathematical Sciences.  
*Gain/Variability Tradeoffs in Markovian Decision Processes and Related Problems.*
- Joo-Jin Lee, of Seoul, Korea; B.S.E. Seoul National University, 1975; M.S.E., The Johns Hopkins University, 1984. Mechanical Engineering.  
*A Study of Short Fatigue Crack Behavior in Notched 2024-T3 Aluminum Specimens.*
- Gerald Michael MacDonald, of Baltimore, Md.; B.A. State University of New York at Albany, 1979. Geography and Environmental Engineering.  
*Politics and Public Works: Baltimore before Progressivism.*
- Martin Neil Raftenberg, of Baltimore, Md.; B.E. State University of New York at Stony Brook, 1972; M.S.E. University of Michigan, 1974. Mechanics and Materials Science.  
*A Model for Micromechanics of the Inner Ear.*
- Alan Groves Robinson, of Wilmington, Del.; B.A. Cambridge University, England, 1980; M.S.E. The Johns Hopkins University, 1983. Mathematical Sciences.  
*The Isolation Game and its Generalization.*
- Mehrdad Soltani, of Tehran, Iran; B.S. North Carolina Agricultural and Technical State University, 1980; M.S. Virginia Polytechnic Institute and State University, 1982. Civil Engineering.  
*Reliability of Random Systems and Failure Cost Design.*
- Kathleen Sullivan, of Dover, Del.; B.S. University of Idaho, 1976. Geography and Environmental Engineering.  
*Hydraulics and Fish Habitat in Relation to Channel Morphology.*
- Gary Douglas Tasker, of Reston, Va.; B.C.E. Georgia Institute of Technology, 1966; M.S.E. The Johns Hopkins University, 1981. Geography and Environmental Engineering.  
*Analysis of Streamflow Data Networks for Regional Information Using GLS Regression.*
- Morgan Jones Thoma, of Allentown, Pa.; B.S. Lehigh University, 1981. Electrical Engineering and Computer Science.  
*New Techniques to Determine MOSFET Constants and Harmonic Distortion in MOS Circuits.*
- Pannalal Vimalchand, of Madras, India; B.T. University of Madras, 1977; M.S. Clarkson College of Technology, 1980. Chemical Engineering.  
*Thermodynamics of Multi-polar Molecules: The Perturbed-Anisotropic-Chain Theory.*
- Michael Dean Walker, of Columbus, Ohio; B.S. University of Virginia, 1971; M.S., 1973. Mechanics and Materials Science.  
*Laser Doppler Measurement of Grid Turbulence in a Box.*
- Zhishi Wang, of Dao Li Harbin, China; M.S. Harbin Agricultural and Civil Engineering Institute, 1982. Geography and Environmental Engineering.  
*Chemical Aspects of Deep Bed Filtration.*
- Che-Liang Yang, of Tainan, Taiwan; B.S. National Chiao Tung University, 1979. Electrical Engineering and Computer Science.  
*Fault Identification and Isolation in Multiprocessor Systems.*
- Bofu Yu, of Beijing, China; Diploma, Peking University, 1982. Geography and Environmental Engineering.  
*Studies of Hyperconcentration in Rivers and Dynamic Aspects of River Geometry.*
- Zhongping Zhu, of Shanghai, China; Master's degree Tsinghua University, 1982. Geography and Environmental Engineering.  
*A Siting and Allocation for Environmental Facilities.*
- David Michael Zucker, of Baltimore, Md.; B.A. The Johns Hopkins University, 1980; M.A., 1981. Mathematical Sciences.  
*Survival Data Regression Analysis with Time-Dependent Covariate Effects.*

## DOCTORS OF PHILOSOPHY

in The School of Arts and Sciences

- Linda Jeanne Allred, of Asheboro, N.C.; B.S. Duke University, 1970; M.A. The Johns Hopkins University, 1983. Psychology.  
*Sources on Non-Equivalence Between Computerized and Conventional Psychological Tests.*
- Susan MacMillan Arensberg, of Boston, Mass.; B.A. Smith College, 1969; M.A. New York University, 1971. History of Art.  
*The Padua Bible and the Late Medieval Biblical Picture Book.*
- Jay Martin Baltz, of Philadelphia, Pa.; B.A. University of Pennsylvania, 1978. Biophysics.  
*Measurement and Calculation of the Forces Necessary to Hold a Motile Human Sperm; Implications for the Interactions Between the Sperm and the Zona Pellucida.*
- Karen-edis Barzman, of Orno, Me.; B.A. New York University, 1978. History of Art.  
*The Florentine Compagnia, Accademia, ed Universita del Disegno.*
- Joseph Michael Beechem, of Covington, Ky.; B.S. Northern Kentucky University, 1981. Biology.  
*Global Analysis of Multidimensional Fluorescence Decay Surfaces.*
- Genevieve Belanger, of Montreal, Canada; B.E. Ecole Polytechnique, 1980; M.A. The Johns Hopkins University, 1981. Physics and Astronomy.  
*New Vector Bosons in Electroweak Interaction.*
- Jon Kirtland Borowicz, of Cedarburg, Wis.; B.A. University of Wisconsin at Madison, 1975; M.A. The Johns Hopkins University, 1979. Philosophy.  
*Beneficence and Decision Making in the Treatment of Meningomyelocele.*
- Charles Wayne Bowers, of Baltimore, Md.; B.A. The Johns Hopkins University, 1972; M.S., 1977. Physics and Astronomy.  
*Spectroscopy of the Far and Extreme Ultraviolet Dayglow.*
- Eliot Michael Burka, of Washington, D.C.; B.A. University of Pennsylvania, 1979; M.A. The Johns Hopkins University, 1981. Physics.  
*A Study of Resonance Production in Antiproton-Proton Annihilation into Pions at 8.3 and 13.0 GeV/c.*
- Nadeem Akhtar Burney, of Rawalpindi, Pakistan; B.Sc. University of the Punjab, 1974; M.Sc. Quaid-i-Azam University, 1977. Political Economy.  
*International Capital Movements and Welfare in the Presence of External Economies of Scale.*
- Kathleen Mary Butler, of Birmingham, England; B.A. Corpus Christi State University, 1979; M.A. The Johns Hopkins University, 1982. History.  
*Slave Compensation and Property: Jamaica and Barbados, 1823-1843.*
- Richard Anthony Cardullo, of Boston, Mass.; M.S. University of Massachusetts, 1981. Biophysics.  
*Oxygen Metabolism, Motility, and the Maintenance of Viability of Caudal Epididymal Rat Sperm.*
- Barbara Koehler Christy, of Baltimore, Md.; B.S. University of California at Davis, 1979. Biology.  
*An Analysis of the Effects of DNA Methylation on Gene Expression in Cultured Mouse Cells.*
- Timothy Eugene Cleveland, of Amarillo, Texas; B.A. Hardin-Simmons University, 1981; M.A. The Johns Hopkins University, 1983. Philosophy.  
*Acting, Willing, and Trying.*
- James Vernon Coe, of Chester, Pa.; B.A. Swarthmore College, 1980. Chemistry.  
*Photoelectron Spectroscopy of Negative Cluster Ions.*
- Thomas David Cornell, of Rochester, N.Y.; B.A. Southwestern at Memphis, 1974; M.S. Georgia Institute of Technology, 1977. History of Science.  
*Merle A. Tuve and His Program of Nuclear Studies at the Department of Terrestrial Magnetism: The Early Career of a Modern American Physicist.*
- Jeffrey Albert Cynx, of Catalina Island, Calif.; B.A. St. John's College, 1973; M.A. The Johns Hopkins University, 1983. Psychology.  
*Spectral and Periodicity Pitch Perception in a Songbird (Sturna Vulgaris).*
- Steven Gert Davis, of Akron, Ohio; B.A. Swarthmore College, 1979. Chemistry.  
*Aflatoxin B Biosynthesis.*
- James Gregory Dees, of Cincinnati, Ohio; B.A. University of Cincinnati, 1972; M.A. The Johns Hopkins University, 1976. Philosophy.  
*Coercive Offers: A Study of the Nature and Ethics of Coercion.*



- Fanny Saul Demers, of Ottawa, Canada; B.A. University of the Bosphorous at Istanbul, 1975; M.B.A. McGill University, 1977; M.A. The Johns Hopkins University, 1982. Political Economy.  
*Bayesian Learning as a Propagating Mechanism in a Dynamic General Equilibrium Model of Business Cycles.*
- Michel Demers, of Ottawa, Canada; Diploma, Bois-de-Boulogne College, 1972; B.A. McGill University, 1975; M.A., 1981; M.A. The Johns Hopkins University, 1982. Political Economy.  
*Essays in the Economics of Uncertainty.*
- Thomas Holland Dial, of Cullman, Ala.; B.A. University of Alabama, 1975. Sociology.  
*Status Attainment in the Heroic Subculture: A Test of the Prison Learning Hypothesis.*
- Frederic Andrew Diegel, Jr., of Abingdon, Pa.; M.A. The Johns Hopkins University, 1985. Earth and Planetary Sciences.  
*Geometry of Imbricate Thrusting in the Mountain City Window, Tennessee.*
- Joseph Dominic Falvo, of Strongoli, Italy; B.A. Loyola University, 1974; M.A. Catholic University of America, 1977; M.A., 1979; M.A. The Johns Hopkins University, 1985. Hispanic and Italian Studies.  
*The Economy of Human Relations in Castiglione's Libro del Cortegiano.*
- Daniel Douglas Frye, of Charlottesville, Va.; B.A. University of Idaho, 1979; M.A. The Johns Hopkins University, 1981. Physics and Astronomy.  
*The Louisville-Dirac-Fock and Complex-Rotated Hartree-Fock Theories in Atomic Structure Calculations.*
- Susannah Gal, of Kalamazoo, Mich. Biology.  
*The Major Glycoprotein Secreted by Transformed Mouse Cells in a Novel Lysosomal Acid Protease.*
- Stephen Garrett, of Frederick, Md.; B.Sc. University of Western Ontario, 1978. Biology.  
*Genetic Studies on the Synthesis of the Major Outer Membrane Porin Proteins of E. coli K12.*
- Sigurour Reynir Gislason, of Reykjavik, Iceland; B.S. University of Iceland, 1980. Earth and Planetary Sciences.  
*Meteorite Water-Basalt Interactions: Field and Laboratory Study.*
- Barry Eckman Goldfarb, of Baltimore, Md.; B.A. Yale University, 1975; M.A. University of Chicago, 1978. Classics.  
*Plato's Gorgias and the Drama of the Philosophical life.*
- Christopher Holliday Goldman, of Red Lion, Pa.; B.A. Albright College, 1969; M.A. Georgetown University, 1973. Political Science.  
*Politics, Bureaucracy and Rural Development in Lesotho.*
- Thomas Fraser Grieve, of Kelowna, Canada; B.A. Simon Fraser University, 1970; M.A., 1974. English.  
*Displacing the Self: The Progress of Ezra Pound's Precantos Poetics.*
- Frank Rock Gunter, of Allentown, Pa.; M.A. The Johns Hopkins University, 1979. Political Economy.  
*U.S. Bank Foreign Lending.*
- John Christopher Haley, of Casper, Wyo.; M.A. The Johns Hopkins University, 1984. Earth and Planetary Sciences.  
*Upper Cretaceous (Beaverhead) Synorogenic Sediments of the Montana-Idaho Thrust Belt: Relationships Between Sedimentation and Tectonism.*
- Marilyn Emily Hawley, of Chicago, Ill.; B.S. The Johns Hopkins University, 1971; M.A., 1973. Chemistry.  
*Design and Assembly of a Low Temperature Vacuum Tunneling Apparatus and Preliminary Measurements of the Energy Gap of an Organic Superconductor.*
- Samuel Pastor Hernandez-Rivera, of Mayaguez, Puerto Rico; B.S. University of Puerto Rico, 1974; M.A. The Johns Hopkins University, 1982. Chemistry.  
*Rotational Transitions in the Ionization-Excitation of Supersonic Molecular Nitrogen Beams by Electron Impact Induced Fluorescence and Comparison of Absolute Photoelectron Fluxes Measured on Atmosphere Explorer-C and Atmosphere Explorer-E Satellites with Theoretical Fluxes and Predicted and Measured Molecular Nitrogen Second Positive Group Volume Emission Rates at 3371 Angstroms.*
- Robert Allan Horlick, of Cheverly, Md.; B.S. University of Maryland, 1978. Biology.  
*Isolation and Characterization of the Chicken Muscel Pyruvate Kinase Gene.*
- Bruce James Hrnjez, of Norfolk, Va.; M.A. The Johns Hopkins University, 1985. Chemistry.  
*Synthetic Approaches to Macrobicyclic Allenes and Alkenes.*
- Andrew Phillip Jephcoat, of Birmingham, England; M.A. The Johns Hopkins University, 1984. Earth and Planetary Sciences.  
*Hydrostatic Compression Studies on Iron and Pyrite to High Pressure: The Composition of the Earth's Core and the Equation of State of Solid Argon.*
- Joseph Jucewicz, of South River, N.J.; B.A. Connecticut College, 1976. Political Science.  
*Voting and Abstention in Presidential Elections: A Simulation Model of Individual Vote Choice.*
- Joanne Baetzhold Kean, of Buffalo, N.Y.; B.A. Canisius College, 1979; M.A. The Johns Hopkins University, 1985. Chemistry.  
*Structure of the Central Domain of 16 S Ribosomal RNA.*

- Jack Lloyd Komisar, of San Antonio, Texas; B.S. University of Hartford, 1972; M.A., 1976. Biology.  
*Studies of the Murine Immune Response to Bacterial Lipopolysaccharide.*
- Frederick Mark Kronz, of Austin, Texas; B.S. University of Pittsburgh, 1978. Philosophy.  
*A Critical Survey of the Problem of Measurement in Quantum Mechanics.*
- Rita Petti Landers, of College Park, Md.; Doctorate in Literature, University Degli Studi Di Firenze, 1970; Diploma in Hispanic Studies, University of Oveido, 1972; M.A. The Johns Hopkins University, 1979. Hispanic and Italian Studies.  
*Las lagrimas de Angelica de Luis Barahona de Soto: Estructura, Tecnica Narrativa, Fuentesy Estilo.*
- Susan Elizabeth Lawrence, of St. Louis, Mo.; B.A. Furman University, 1979; M.A. The Johns Hopkins University, 1982. Political Science.  
*The Poor in Court: The Legal Impact of Expanded Access.*
- Nanette Christine Le Coat, of Pasadena, Calif.; B.A. University of Washington, 1971; M.A., 1972. French.  
*Neither Fable nor Science: Volney's Writings on Travel and History.*
- Frederick David Levenbach, of State University, Ark.; B.A. Franklin and Marshall, 1974; M.A. The Johns Hopkins University, 1977. Political Science.  
*Bureaucratic Behavior in Project Appraisal and Selection: The Economic Development Administration.*
- Carol Ann Lisek, of Baltimore, Md.; B.A. Towson State University, 1977; M.A. The Johns Hopkins University, 1981. Chemistry.  
*Structural Elucidation of a Hydroxylated Metabolite of Thalidomide: Evidence Supporting and Arene oxide Intermediate.*
- Cheryl Eileen Lopes, of Providence, R.I.; M.A. The Johns Hopkins University, 1982. Psychology.  
*Attributions of Casual and Recovery Responsibility among Self-Help Group Members.*
- Shu-Bin Lu, of Manyang, Taiwan; B.Sc. National Taiwan Normal University, 1969; M.S. National Taiwan University, 1976. Chemistry.  
*Synthesis of Carbocycles: Sequential Michael-Michael-Ring Closure (MIMIRC) Reactions for One-pot, three component, 2+2+2 Construction of Six-membered Cylic Compounds.*
- Joan Rosensweig Lucco, of New Britain, Conn.; B.A. Brown University, 1959; M.A. University of Chicago, 1960; M.A. The Johns Hopkins University, 1982. Political Science.  
*Roles of Interest Group Representatives at the White House: Staff for Consumer Units in the Modern Presidency from John F. Kennedy to Jimmy Carter.*
- Paul Braddock Lukacs, of Baltimore, Md.; B.A. Kenyon College, 1978; M.A. The Johns Hopkins University, 1980. English.  
*Against the Current: Historical Perspective in Antebellum American Fiction.*
- Yutaka Matsui, of Baltimore, Md.; M.A. Nagoya University, 1978; M.A. The Johns Hopkins University, 1981. Physics and Astronomy.  
*X-Ray and Radio Images of Four Supernova Remnants with Three Distinct X-Ray Signatures.*
- Dimitrios Vasilios Mavrophilipos, of Baltimore, Md.; B.A. The Johns Hopkins University, 1982; M.A., 1982. Chemistry.  
*Characterization of the Iron Environment of Lipoxigenases.*
- Judith Ann McKenna, of Baltimore, Md.; B.A. Seton Hill College, 1976. Psychology.  
*Expert Psychological Testimony on Eyewitness Performance: A Critical Evaluation.*
- David Brooks McKinney, of Geneva, N.Y.; B.S. Beloit College, 1975. Earth and Planetary Sciences.  
*Origin of Comb Layered and Orbicular Rocks near Fisher Lake, California.*
- Albert Stanley Meiburg, of Louisville, Ky.; B.A. Wake Forest University, 1975; M.A. The Johns Hopkins University, 1977. Political Science.  
*Protect and Enhance: Lori's Juridical Democracy and the Prevention of Significant Deterioration of Air Quality.*
- Charles Edward Montague, of Baltimore, Md.; B.S. Lehigh University, 1974. Biophysics.  
*A Study of the Polydispersity of F-actin by Photon Correlation Spectroscopy: Including an Extension of the Exponential Sampling Method to Rigid Rods.*
- Patricia Lane Natalicchi, of Orlando, Fla.; B.A. Mary Washington College, 1964; M.S. Drexel University, 1965; M.A. Middlebury College, 1971; M.A. The Johns Hopkins University, 1977. Hispanic and Italian Studies.  
*Woman as Hero: The Legend of Gaspara Stampa.*
- Jesse Marcus Noland, of Houston, Texas; B.A. Swarthmore College, 1981; M.A. The Johns Hopkins University, 1983. Political Economy.  
*The Determinants of Comparative Advantage: Empirical Analysis in a Multicountry Time-Series Cross-Section Framework.*
- Kathy Jo Ogren, of Denver, Colo.; B.A. Scripps College, 1977; M.A. The Johns Hopkins University, 1979. History.  
*Performance Crossroads: The Significance of the Jazz Controversy for Twenties America.*
- Ercument Hasan Ortacgil, of Istanbul, Turkey; B.Sc. Middle East Technical University, 1978; M.A. The Johns Hopkins University, 1982. Mathematics.  
*On Growth of Entire Holomorphic Mappings.*



- Chwee-huay Ow, of Singapore, Singapore; B.A. University of Singapore, 1969; M.S., 1976; M.A. The Johns Hopkins University, 1982. Political Economy.  
*The Currency Board Monetary System—The Case of Singapore and Hong Kong.*
- Roland Arvel Owens, of Baltimore, Md.; B.A. University of Maryland, Baltimore County, 1979. Biology.  
*Glutathione: An Intracellular and Extracellular Protective Agent in Salmonella Typhimurium and Escherichia Coli.*
- Susan Marie Parkhurst, of Baltimore, Md.; B.A. The Johns Hopkins University, 1982. Biology.  
*Interactions between Forked, Yellow, Gyssys, and Suppressors in Drosophila.*
- Evelyn Hester Perry, of Jacksonville, Fla.; B.A. Wellesley College, 1967. Near Eastern Studies.  
*The Complaints of an Eloquent Peasant.*
- Erich Stanley Phillips, of Albany, Calif.; B.S. University of Michigan, 1979. Biophysics.  
*Cytoplasmic Diffusion in the Retinal Rod Photoreceptor: Its Measurement and Role in Limiting the Speed of the Photoresponse.*
- Kimberly Andrea Quaid, of Baltimore, Md.; B.A. Brown University, 1977; M.A. The Johns Hopkins University, 1982. Psychology.  
*Informed Consent: The Effects of Disclosure for a Prescription Drug on Patient's Knowledge, Beliefs and Response to Treatment.*
- William Calvin Rice, Jr., of Blue Ridge Summit, Pa.; B.A. Towson State University, 1968; M.A. The Johns Hopkins University, 1972. History.  
*The Uncertain Alliance: A Study of the German Foreign Ministry Liaison Staff at General Headquarters during the First World War.*
- Margaret Maher Robinson, of Baltimore, Md.; M.A. The Johns Hopkins University, 1982. Mathematics.  
*On the Complex Powers Associated with the Twisted Cases of the Determinant and the Pfaffian.*
- Richard Michael Rohan, of Pasadena, Calif.; B.A. University of California at Irvine, 1977. Biology.  
*A Genetic Analysis of the Adenoviral Va Gene Promoter.*
- Ellen Frances Rooney, of New York, N.Y.; B.A. Wesleyan University, 1979; M.A. The Johns Hopkins University, 1982. English.  
*At the Limits of Pluralism: Constructing the Problematic of American Literary Theory.*
- Lisa Rosner, of Minneapolis, Minn.; B.A. Princeton University, 1979. History of Science.  
*Students and Apprentices: Medical Education at Edinburgh University, 1760-1810.*
- Deborah Susan Rubin, of Mountain View, Calif.; B.A. Brown University, 1975; M.A. The Johns Hopkins University, 1984. Anthropology.  
*People of Good Heart: Rural Response to Economic Crisis in Tanzania.*
- M. Rups, of Fairfax, Va.; B.A. College of William and Mary, 1972; M.A. The Johns Hopkins University, 1973. Classics.  
*Thesaurus: A Study of the Treasury Building as Found in Greek Sanctuaries.*
- Geoffrey Norman Sapir, of North Miami Beach, Fla.; B.S. University of Florida, 1979; M.A. The Johns Hopkins University, 1979. Physics and Astronomy.  
*Magnetic and Electrical Properties of Sputtered Palladium-Iron Thin Films.*
- David Carl Scharf, of Normal, Ill.; B.A. University of Maryland, 1976; M.A. The Johns Hopkins University, 1982. Philosophy.  
*Quantum Mechanics and the Program for the Unity of Science.*
- Carl Joseph Schmidt, of Brookline, Mass. Biology.  
*Human Metallothionein Genes: Structure, Expression and Regulation.*
- Clifford William Schweinfest, of Baltimore, Md.; B.A. The Johns Hopkins University, 1976. Biology.  
*The Molecular Genetics of Creatine Kinase M.*
- Claudia Winn Sieber, of Baltimore, Md.; B.A. Baylor University, 1962; M.A. The Johns Hopkins University, 1978. History.  
*The Invention of a Capital: Philip II and the First Reform of Madrid.*
- Jeffrey David Skoblow, of Los Angeles, Calif.; B.A. State University of New York at Purchase, 1976; M.A. The Johns Hopkins University, 1979. English.  
*Forgetting and Remembering: William Morris and the Earthly Paradise.*
- Judy Ann Small, of Massena, N.Y.; B.S. Siena College, 1980. Biology.  
*An Analysis of Transgenic Mice Containing Papovavirus Early Region Genes.*
- Lauren Cohen Small, of St. Louis, Mo.; M.A. The Johns Hopkins University, 1980; M.A., 1981. Humanities.  
*The Case of Thomas Mann's Joseph und seine Brüder: An Essay in German-Jewish Cultural Assimilation.*
- Edward George Spack, Jr., of Baltimore, Md.; B.S. Muhlenberg College, 1976. Biology.  
*Major Histocompatibility Complex Antigens of Marine Erythrocytes.*
- Janet Ellen Steele, of New York, N.Y.; M.A. The Johns Hopkins University, 1981. History.  
*From Paradise to Park Row: The Life, Opinions, and Newspapers of Charles A. Dana, 1819-1897.*

- Larry Wilcox Stults, of Waldwick, N.J.; B.A. New College, 1980. Biology.  
*The Role of Nickel in Membrane-Bound Hydrogenase and Nickel Metabolism in Rhizobium japonicum.*
- Patricia Torres-Mejia, of Mexico City, Mexico; M.A. The Johns Hopkins University, 1984. Anthropology.  
*Before Smoking: Social Relations Involved in Tobacco Production in a Philippine Setting.*
- Stanley Wilson Tozer, of Croton-on-Hudson, N.Y.; B.A. Carleton College, 1979. Chemistry.  
*High Pressure Electrical Transport Studies of Several Organic Charge Transfer Salts.*
- Cynthia Gayle Tudor, of Macon, Ga.; B.A. Georgia State University, 1973; M.A., 1979. Sociology.  
*Sex Differences in the Use of Nonpsychiatric Services in a Health Maintenance Organization Setting: A Test of the Impact of Social Roles, Illness Level, and Propensity to Seek Care.*
- Michael David Warner, of Evanston, Ill.; B.A. Oral Roberts University, 1979; M.A. The Johns Hopkins University, 1983. English.  
*The Letters of the Republic: Literature and Print in Republican America.*
- Ellen Andrea White, of Sea Bright, N.J.; B.A. University of North Carolina at Chapel Hill, 1980; M.A. The Johns Hopkins University, 1982. Psychology.  
*Phonological Processing in the Comprehension of Written Words and Sentences.*
- Michael Warren Wolfe, of Sarasota, Fla.; B.A. Boston University, 1979; M.A. The Johns Hopkins University, 1982. History.  
*The Conversion of Henri IV, King of France (1584-1595).*
- Lu Zhang, of Baltimore, Md.; M.A. The Johns Hopkins University, 1982. Physics and Astronomy.  
*Magnetic Surface Anisotropy of Amorphous Fe-B Ultrathin Films.*



Office of The Registrar  
75 Garland Hall

July 16, 1986

For those who use the Commencement Program as an official record of the awarding of degrees, please note the following changes to the 1986 Commencement Program:

1. Bachelors of Arts (Arts and Sciences)

Add: Thomas Jay Montanaro, of Old Lyme, Conn.

Delete:	Herman Ayayo	Helen Lynch
	Wayne Creadick	Sungmin Park
	John Cummings	Christine Ritchie
	Emily De Coster	Elizabeth Rosen
	Susan Ellis	Maureen Shea
	John Ghikas	Hernan Silva
	Helena G. Harvilicz	David Wilson
	Richard Hoheb	Takashi Yamada
	Adrienne Holmes	Axel Yuo
	Scott Kamber	

2. Bachelors of Science in Biomedical Engineering (Engineering)

Delete: Vernon W.L. Huang

3. Bachelors of Science in Chemical Engineering (Engineering)

Delete: David Wayne Donnick

4. Bachelors of Science in Electrical Engineering (Engineering)

Delete:	Anthony Steven Aquilino	Joseph M. Kwiatkowski
	Song Chin Hong	Syed Abbas Raza

5. Bachelors of Science in Mathematical Sciences (Engineering)

Delete: Peter Christopher Mitchell

6. Bachelors of Arts (Engineering)

Add: Anthony Steven Aquilino

7. Bachelors of Electrical Engineering (Engineering)

Delete: Jean Denise Gaylord-Person

8. Bachelors of Mechanical Engineering (Engineering)

Delete: Steven Raymond Cover

9. Bachelors of Music (Peabody Conservatory)

Delete: Peter A. Kates                      David J.R. Meaux

10. Associates of Science (Continuing Studies)

Delete: George Charles Gummer

11. Masters of Science (Continuing Studies)

Delete: John Jaye Burkhardt	Joan N. Miller
Michele E. Dilegge	Sally Ann Miller
Lois J. Emershaw-Machinist	Susan R. Schiaffino
Penny Ortel Friesland	Sharon B. Schwartz
Susan Marie Geiger	Melody G. Young
Margaret Mary McNally	

12. Masters of Liberal Arts (Continuing Studies)

Delete: Karen Mary Slockbower

13. Masters of Administrative Science (Continuing Studies)

Delete: Louis Alan Naviasky                      Debra C. Watkins

14. Masters of Music (Peabody Conservatory)

Add: Karl Christopher Richter, of Bogota, Colombia; B.M. Peabody Conservatory of Music, 1985, Violin.

Delete: Barteld Douwe Bosma                      Bok Hwa Kim

15. Masters of Health Science (Hygiene and Public Health)

Delete: Lyle Richard Edinger                      Andrew A. Vernon

16. Masters of Public Health (Hygiene and Public Health)

Add:        Dittmer Frederic Alan, of Severn, Md.; B.A. Stanford  
                 University. 1956; M.D., 1959.

17. Masters of International Public Policy (Advanced International  
      Studies)

Add:        Mahmud Abdullah. of Lagos, Nigeria; B.S. University of  
                 Maryland. 1984.

              Jose Luis de la Pena. of Madrid, Spain; Law degree. University  
                 of Madrid. 1971.

Delete:    Mariam Abdel Karim Al-Awardi        John B. Mallon  
              Halidou Garga                      Caryle M. Murphv  
              Melvin Geiger                    Bernice Williams  
              Suvai Haji Osman

18. Masters of Arts in International Affairs (Advanced International  
      Studies)

Add:        Paul V. Dionne. of Montreal, Quebec; B.A. Princeton Uni-  
                 versity, 1979.

Delete:    Francesco Maria Castiglioni        Christopher Dimitri New  
              Peter Edel                        Katlyn Saba  
              George Dimitri Koulermos        Laura Sipala  
              Giuseppe Nesi

19. Masters of Arts (Advanced International Studies)

Add:        Jeremy Francis John Bowen. of Cyncoed, Cardiff. U.K.;  
                 B.A. University College, London, 1982.

Delete:    Hauwa Akilu                      Beverly G. Baker-Kelly  
              Khaled Ismail Al-Akwaa        Patricia Bergeron  
              Dana Hansen Allin              Christina Bergfalk  
              Mark Steven Andersen        Gwen A. Bondi  
              Joan M. Anway                Michael Boster

Masters of Arts. SA13 (continued)

Michael Braswell	C. Margel Lindzey
Randy Burdette Cheek	Pyramyth Hong Tu Liu
Carole Isabel Choukroun	John Duncan Moore, Jr.
David Colton	Jennifer T. Muratore
Marvnell DeVaughn	Suzanne Elizabeth Nagle
Stacy Maria Dutton	Atta Owusu Ansah
Tanaa M. Frederic	Ann G. Pluemer
Amjad Ali Khan Ghorl	Barbara D. Ranagan
Patricia M. Hahn	Frank M. Smyth
Kay Lasta Halpern	Stephen R. Stern
Alan Hoffman	Joan Timonev
Joanna Theresa Horsfall	Takashi Uchida
Bruce Pitcairn Jackson	William J. Valdez
Kai Li Jen	Peter Vrekar
Young Chul Kim	Edward Wilkes Walker
Tetsuo Kojima	Karsten Warnecke
Jesper Jan Wilhelm Koll	William Oscar Wendlandt II
Chikako Kuno	Jennifer Jarvis White
Margaret R. Leddy	

20. Masters of Science (Engineering)

Add: Yen-Wu Chen, of Silver Spring, Md.; M.S. Eastern Michigan University. 1979. Computer Science.

Richard Scott Johannes, of Baltimore, Md.; B.A. University of Wisconsin, 1968. Computer Science.

Delete: Michael Tak Chen Theodore Price Shertzler  
Kevin Edward LeRow

21. Masters of Arts (Arts and Sciences)

Delete: Reiner Ansen Li-Shing Wang  
Pamela Elizabeth Hinkle

22. Doctors of Philosophy (School of Medicine)

Add: Clifford Arthur Lowell, of Modesto, Calif; B.S. Stanford University. 1979. Biochemistry, Cellular, and Molecular Biology Program - Molecular Biology and Genetics.

Mark Steven Schlissel, of Old Bridge, N.J.; B.A. Princeton University, 1979. Biochemistry, Cellular, and Molecular Biology Program - Biological Chemistry.



23. The headings designating the degrees awarded to three groups of students were accidentally reversed during the printing of the program:

Students listed on page 81 as receiving the Doctor of Philosophy degree from the School of Advanced International Studies actually received the degree of Doctor of Public Health from the School of Hygiene and Public Health.

Students also listed on page 81 as receiving the degree of Doctor of Public Health from the School of Hygiene and Public Health actually received the degree of Doctor of Philosophy from the School of Hygiene and Public Health.

Students listed on page 83 as receiving the Doctor of Philosophy degree from the School of Hygiene and Public Health actually received their degrees from the School of Advanced International Studies.

To correct this printing error we have attached errata sheets for insertion in your copy of the program.





